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COMPUTER PROGRAM FOR DESIGNING OPTIMAL NETWORKS WITH MOS GATES

by

Teruaki Shinozaki

April 1972

DEPARTMENT OF COMPUTER SCIENCE
UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN · URBANA, ILLINOIS

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April 24, 1972

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1. INTRODUCTION

The recent progress in integrated circuit technology has been improving the main drawback of MOS devices (i.e. slow speed), and the MOS logic circuit has become one of the important logic families for electronic digital computers. MOS logic circuits have a lot of advantages over bipolar devices such as high packing density, lower power consumption and simple production processes. In addition to these features, the MOS circuit has an interesting feature in that each MOS gate can represent a considerably complex negative function. Figure 1.1 shows conventional NOR and NAND gates and a complex gate which are implemented as MOS gates.

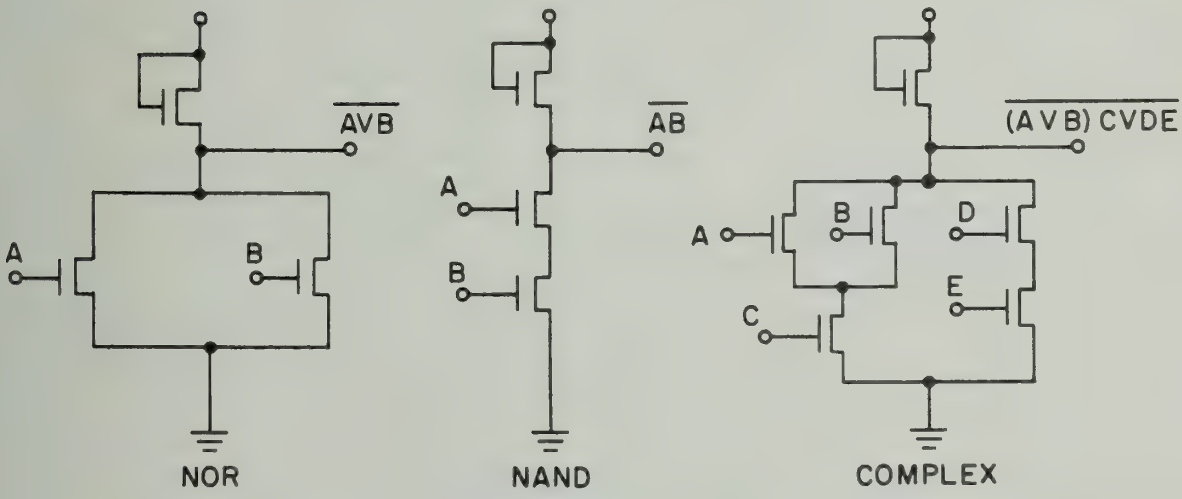

FIGURE 1.1 MOS GATES

By using complex gates, it is usually possible to synthesize circuits with fewer MOS gates than with conventional NOR, NAND gates [1]. In Figure 1.2, a binary full adder which is implemented with conventional negative logic gates is shown. This adder is proved to have the minimum number of gates by integer programming [2]. In Figure 1.3, a binary adder which is implemented with complex MOS gates is shown. A comparison of these adders is shown in Table 1.1.

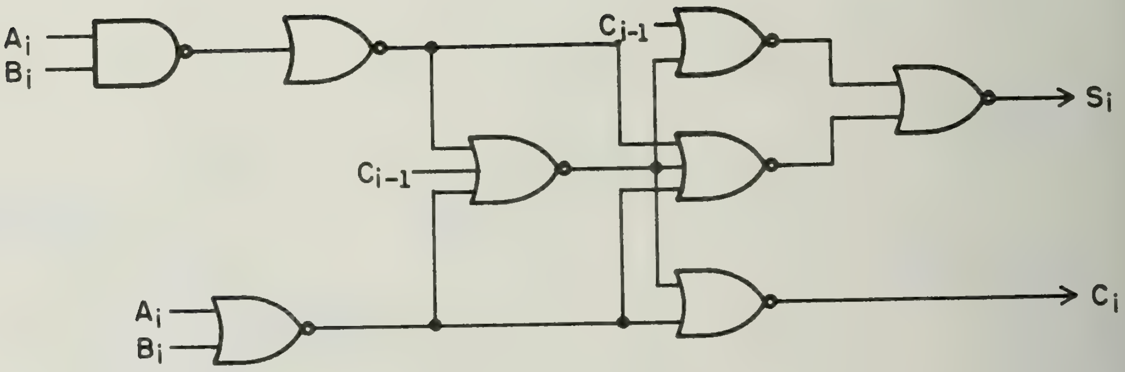

FIGURE 1.2 BINARY FULL ADDER (NOR-NAND IMPLEMENTATION)

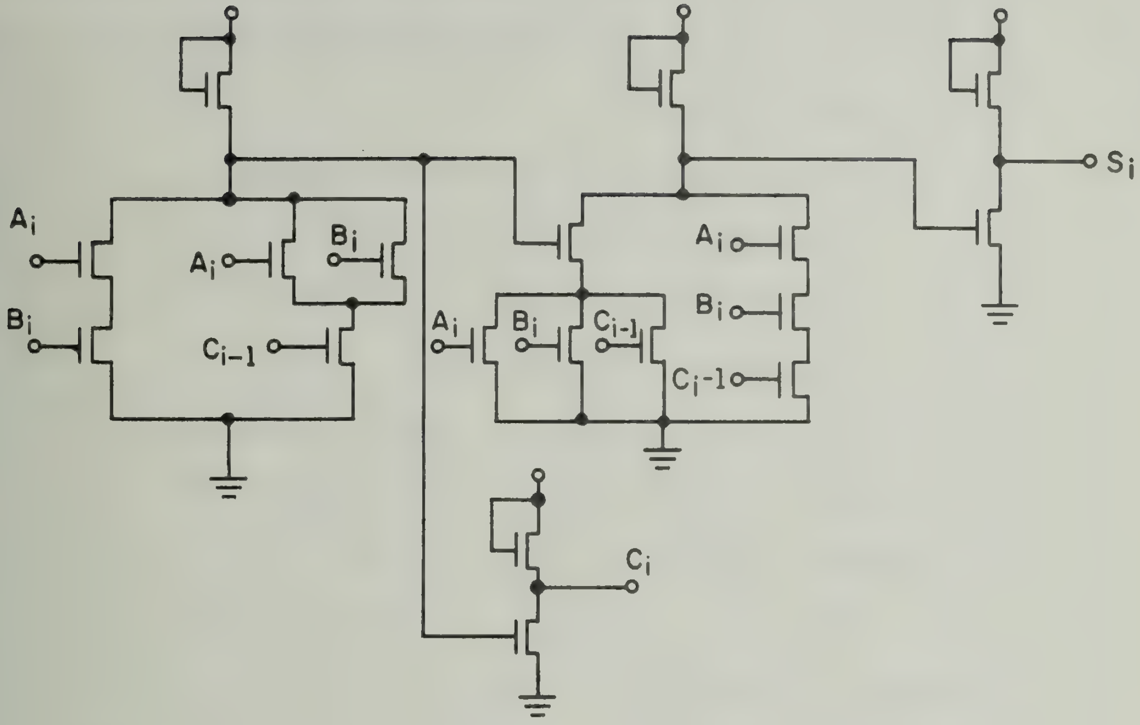

FIGURE 1.3 BINARY FULL ADDER
(COMPLEX GATE IMPLEMENTATION)

Implementation	No. of MOSFETS	No. of Gates	Levels	Inter-Connections	Power Consumption
Simple gate	24	8	5	17	4
Complex gate	18	4	3	14	2

TABLE 1.1 COMPARISON OF BINARY FULL ADDER IMPLEMENTATIONS WITH SIMPLE GATES AND COMPLEX GATES

Apparently, the network implemented with complex gates is better than the other in every item. When logical networks are implemented with MOS complex gates, some of the following objectives are usually chosen by logic designers.

1. Minimization of the number of MOS gates
2. Minimization of the number of MOSFETs
3. Minimization of the number of interconnections
4. Minimization of logic levels

Usually these objectives are not independent of each other and they often conflict with each other. In such a case we have to choose the most important objectives at the sacrifice of other objectives.

For these design objectives, some algorithms have been developed. An algorithm which minimizes the number of MOS gates restricted to two level networks was first developed by Ibaraki and Muroga [3]. This method uses the truth table and the minimal network is synthesized by finding minimal cover sets. Two efficient algorithms which use different approaches were developed by Liu [4] and Kasami et al. [5] independently. Those two algorithms are very similar and both algorithms extended the network to more than two level cases. These algorithms minimize the number of MOS gates. But the efficient algorithm which minimizes the number of MOSFETs has not been known, although this problem can be solved by integer programming for small networks [6].

In this paper, a program package which designs MOS logic networks based on Liu's algorithm* is described. And the computational results for functions of ten or less variables are discussed, and as a further consideration, an algorithm which was developed based on Liu's algorithm and Kasami's is described.

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* The early version of Liu's Ph.D. thesis.

2. SYNTHESIS ALGORITHM

An MOS gate consists of a single FET as a load and several FET's as drivers. Hence the output function of each gate is always a negative function and any negative function can be realized with an MOS gate. In this chapter, an algorithm which implements logic networks with a minimal number of negative gates is described. This algorithm is based on the early version of Liu's algorithm. Since each gate consumes almost constant power, this algorithm implements networks of lowest power consumption.

The following definitions are necessary to derive the algorithm.

Definition 1

Let V_n be the set of all n-dimensional binary vectors with each coordinate of 0 or 1. For two vectors, $A = (a_1, a_2, \ldots, a_n)$ and $B = (b_1, b_2, \ldots, b_n)$ in V_n, $A = B$ if and only if $a_i = b_i$ for all i, and $A < B$ if and only if $a_i \leq b_i$ for all i and $A \neq B$.

Definition 2

Assume A is an input vector. Then α is defined as the product of complemented literals corresponding to 0 in A and β is defined as the product of literals corresponding to 1 in A. (e.g. $\alpha = \bar{x}_1 \bar{x}_3$ $\beta = x_2 x_4$ for input vector 0101).

Definition 3

Assume A is a true vector of a Boolean function f. Then A is detached (i.e. detached from the vector (0, 0, . . ., 0)) if there is a false vector of f, B such that $A > B$. A is said to be attached if it is not detached.

Definition 4

Assume A_1 and A_2 are two true vectors of f. Then A_1 is called seperated from A_2 and denoted as A_1/A_2, if there exists a false vector of f, B, such that $A_1 > B > A_2$.

Definition 5

Let A be a detached true vector of f. Consider every chain of vectors $A_1, A_2, \ldots, A_e$ such that $A_1/A_2/ \ldots /A_e/A$, starting with A. The number of vectors included in the maximum chain is called the degree of A. The set of all vectors with the same degree e is called a true cluster of degree e.

Definition 6

For a given Boolean function f, let us define sets of input vectors $m_0, m_1, \ldots, m_{2d+1}$ where (a) m_{2i} $(i = 0, 1, \ldots, d)$ is the true cluster of detached true vectors of degree i, (b) $m_{2i+1} = \{B \mid B \notin m_{2i}$, $B \notin m_{2(i+1)}$, B is a vector smaller than at least one vector in m_{2i} but not smaller than any vector in $m_{2(i+1)}$* $\}$, m_{2i+1} is called a false cluster and (c) $2d+2$ is the total number of clusters. $(m_0, m_1, \ldots, m_{2d+1})$ is called the stratified structure of f.

Definition 7

For each cluster m_i $(i = 0, 1, \ldots, 2d+1)$, assign binary integer numbers $L(m_i)$ satisfying the following conditions.

(a) The least significant digit of $L(m_i)$ must equal 1 for even i and 0 for odd i.

---

* m_{2d+2} is defined as the empty set.

(b) $L(m_i) \leq L(m_j)$ for $i < j$.

(c) The number of digits of $L(m_i)$ is $T = [\log_2 (d+1)] + 1$ where $[a]$ is the smallest integer not smaller than a.

By representing

$$L(m_i) = \sum_{k=1}^{T} 2^{T-k} \; g_k(m_i)$$

we can construct a table shown in Figure 2.1. This table is called a *stratified truth table*.

	g_1	g_2	$\cdots$	g_T
m_0	$g_1(m_0)$	$g_2(m_0)$	$\cdots$	$g_T(m_0)$
m_1	$g_1(m_1)$	$g_2(m_1)$	$\cdots$	$g_T(m_1)$
$\vdots$	$\vdots$	$\vdots$	$\vdots$	$\vdots$
m_{2d+1}	$g_1(m_{2d+1})$	$g_2(m_{2d+1})$	$\cdots$	$g_T(m_{2d+1})$

FIGURE 2.1 THE STRATIFIED TRUTH TABLE

Definition 8

For each $g_i(m_j) = 1$ in a stratified truth table, find all $\ell > j$ such that $g_i(m_\ell) = 0$. For each ℓ, find an index $k < i$ such that $g_k(m_j) = 0$ and $g_k(m_\ell) = 1$. Let us denote all the indices k with $k_1, k_2, \ldots, k_e$, then $\bar{g}_{k_1} \; \bar{g}_{k_2} \; \cdots \; \bar{g}_{k_e}$ is called a *prohibiting product* of $g_i(m_j)$.

If there is no $\ell > j$ such that $g_i(m_\ell) = 0$, then the prohibiting product is defined as $\overline{0} = 1$.

Algorithm A

Step 1: Find all attached true vectors of a given function f. Denote all the attached true vectors with $A_1, A_2, \ldots, A_m$. Their products of complemented literals by Definition 2 are denoted by $\alpha_1, \alpha_2, \ldots, \alpha_m$. Compute $\Omega = \alpha_1 \vee \alpha_2 \vee \ldots \vee \alpha_m$. For f, form new function fs by changing all the attached true vectors into false vectors.

Step 2: Find the degree of each true vector of fs and form the stratified structure of fs.

Step 3: For each cluster, compute ζ as follows. Assume cluster m_i includes input vectors $A_{i,1}, A_{i,2}, \ldots, A_{i,t_i}$. Then ζ is obtained by

$$\zeta_i = \alpha_{i,1} \vee \alpha_{i,2} \vee \ldots \vee \alpha_{i,\, t_i} \quad \text{if i is even}$$

$$\zeta_i = (\alpha_{i-1,1} \vee \alpha_{i-1,2} \vee \ldots \vee \alpha_{i-1,t_i})\, \overline{(\beta_{i-1,1} \vee \beta_{i-1,2} \vee \ldots \beta_{i-1,\, t_i})} \quad \text{if i is odd,}$$

where $\alpha_{p,q}$ for $p = i$ or $i - 1$ is a product of complemented literals of an input vector $A_{p,q}$ in cluster m_p. $\beta_{p,q}$ is a product of non-complemented literals of an input vector $A_{p,q}$ in cluster m_p.

Step 4: Assign the smallest integer number to each cluster as $L(m_i)$ satisfying the conditions of definition 7, and construct a stratified truth table.

Step 5: For each column i of the stratified truth table, find the set of all indices j's such that $g_i(m_j) = 1$, and denote the set with J_i. For each $j \in J_i$, if $j - 1 \in J_i$ then eliminate the j from J_i, i.e., $J_i = J_i - \{j\}$. After all such j's are eliminated, for each $j \in J_i$

form $h_{ij} = \zeta_j \, \overline{g}_{j1} \, \overline{g}_{j2} \cdots \overline{g}_{je}$, where $\overline{g}_{j1} \, \overline{g}_{j2} \cdots \overline{g}_{je}$ is a prohibiting product of $g_i(m_j)$. Form the sum of all the products h_{ij}'s for each column, and denote it with g_i.

$$g_i = h_{ij1} \vee h_{ij2} \vee \cdots \vee h_{ijk} .$$

Step 6: By using g_T and Ω obtained in Step 1, form Boolean function

$$\varphi = g_T \vee \Omega ,$$

where g_T is the Boolean function for the last column in the stratified truth table.

g_i represents the function of the i th gate of the feed-forward network which realizes function f. φ represents the function f of the last gate.

Example

$$f = x_1 x_2 \vee x_1 x_3 \vee x_2 \overline{x}_4 \vee \overline{x}_3 \overline{x}_4$$

$$= \Sigma\ (0, 4, 6, 8, 10, 11, 12, 13, 14, 15)$$

By Step 1

Attached true vecotrs = (1100, 1000, 0100, 0000)

$\Omega = \overline{x}_3 \overline{x}_4$

By Step 2

m_0 = {1111, 1110, 1101, 1011, 1010}

m_1 = {1100, 0111, 0011, 0101, 1001, 0001, 1000}

m_2 = {0110}

m_3 = {0100, 0010, 0000}

By Step 3

$\zeta_0 = \overline{0} \vee \overline{x}_4 \vee \overline{x}_3 \vee \overline{x}_2 \vee \overline{x}_2 \overline{x}_4 = 1$

$$\zeta_1 = 1 \cdot (\overline{x_1x_2x_3x_4 \vee x_1x_2x_3 \vee x_1x_2x_4 \vee x_1x_3x_4 \vee x_1x_3})$$

$$= \overline{x_1x_3 \vee x_1x_2x_4}$$

$$\zeta_2 = \bar{x}_1\bar{x}_4$$

$$\zeta_3 = \bar{x}_1\bar{x}_4\ (\overline{x_2x_3}) = \overline{x_1 \vee x_4 \vee x_2x_3}$$

By Step 4

	g_1	g_2	g_3
m_0	0	0	1
m_1	0	1	0
m_2	0	1	1
m_3	1	0	0

By Step 5

$$g_1 = \zeta_3 = \overline{x_1 \vee x_4 \vee x_2x_3}$$

$$g_2 = \zeta_1\bar{g}_1 = \overline{x_1x_3 \vee x_1x_2x_4}\ \bar{g}_1$$

$$g_3 = \zeta_0\bar{g}_1\bar{g}_2 \vee \zeta_2\bar{g}_1 = \bar{g}_1\bar{g}_2 \vee \bar{x}_1\bar{x}_4\bar{g}_1$$

By Step 6

$$\varphi = g_3 \vee \Omega = \bar{g}_1\bar{g}_2 \vee \bar{x}_1\bar{x}_4\bar{g}_1 \vee \bar{x}_3\bar{x}_4$$

This network is shown in Figure 2.2.

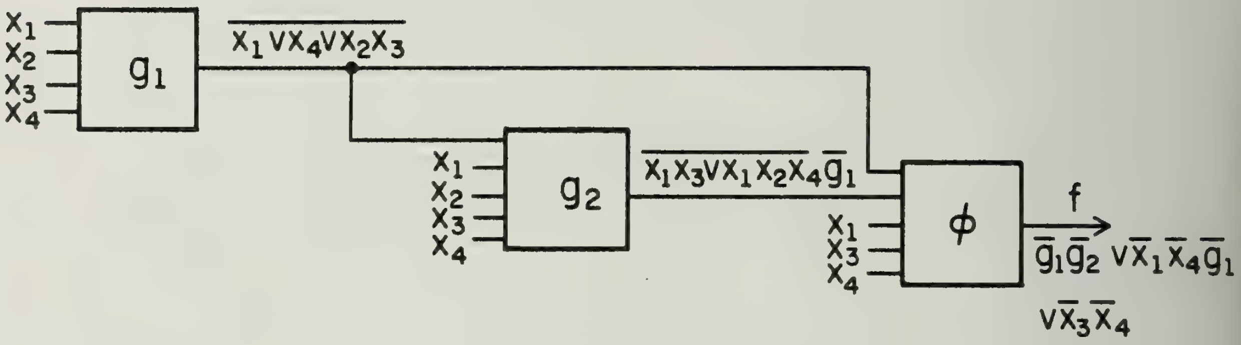
x_1
x_2
x_3
x_4
g_1
$\overline{x_1 \vee x_4 \vee x_2 x_3}$
x_1
x_2
x_3
x_4
g_2
$\overline{x_1 x_3 \vee x_1 x_2 x_4}\,\overline{g}_1$
x_1
x_3
x_4
ϕ
f
$\overline{g}_1 \overline{g}_2 \vee \overline{x}_1 \overline{x}_4 \overline{g}_1$
$\vee \overline{x}_3 \overline{x}_4$

FIGURE 2.2 THE REALIZED NETWORK

3. PROGRAM ORGANIZATION

This program package is implemented according to Algorithm A and is designed to deal with up to ten variable functions. The program package consists of one main program and 14 subroutines implemented by FORTRAN IV. The numbers of statements of the main program and each subroutine are shown in Table 3.1. The total number of statements is 644.

Name	Function	No. of Statements
MAIN	Main program	26
BLDTT	Build truth table	31
FNDA$\overline{V}$	Find attached true vectors	60
ASCEND	Find next smallest vector	22
DECEND	Find next largest vector	22
COUNT	Count the number of 1's in a vector	12
DTABLE	Calculate the degrees of vectors	58
CMZETA	Form ζ	112
COMP	Find complemented function	41
ADDTB	Add two functions	12
SIMPLE	Find the irredundant form	34
BSTTB	Build Stratified Table	34
COMFNC	Form g_i's	50
OUT	Print out f and g_i's	118
PROX	Form Boolean expression of ζ and Ω	38
	TOTAL	644

TABLE 3.1 THE NUMBER OF STATEMENTS OF EACH SUBROUTINE

Program organization is shown in Figure 3.1. Each box consists of a few subroutines and has the following functions.

① Read a Header Card

A header card indicates the number of variables of the Boolean functions which are to be processed.

② Read Boolean Function f

Build Truth Table

Read cards which describe a function f, and build a truth table of the function according to the data.

③ Find Attached True Vectors

Compute Ω

Form Function fs

If the vector (0, 0, . . ., 0) is a false vector, there are no attached true vectors because all other vectors are larger than (0, 0, . . ., 0). If the vector (0, 0, . . ., 0) is a true vector, find all the false vectors of f. Eliminate all true vectors which are larger than each of the false vectors. The rest of the true vectors are attached true vectors. Make the logical product of the complements of variables which are 0 in the vector. Ω is the logical sum of all the products generated for all attached true vectors. Form function fs by changing all the attached true vectors into false vectors.

④ Build Degree table

Set the degree of the vector (1, 1, . . ., 1) to 0. For a vector $A = (a_1, a_2, \ldots, a_n)$ find all the true vectors $B = (b_1, b_2, \ldots, b_n)$ such that $B > A$ and $b_i > a_i$ for only one i, and denote them as

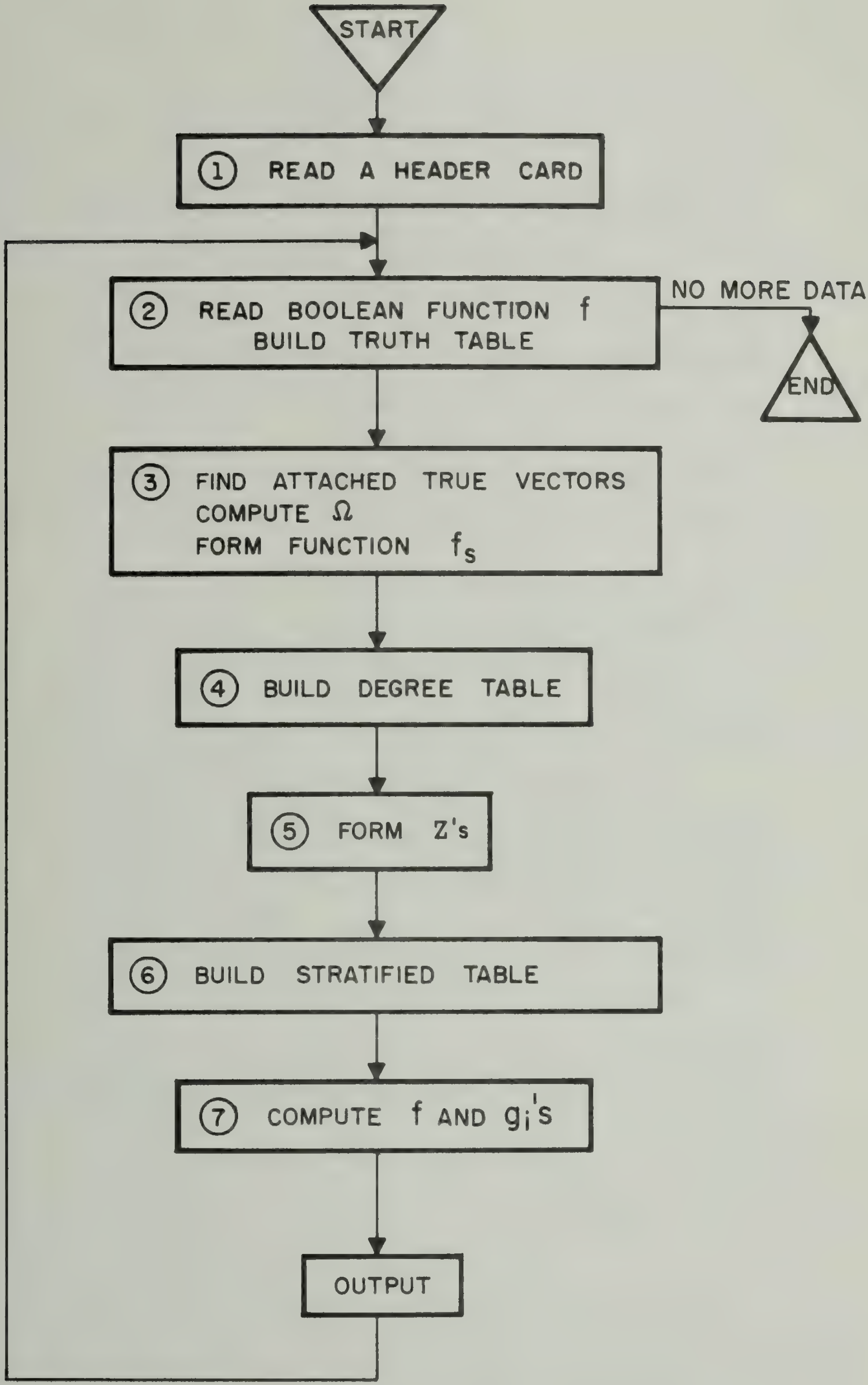

FIGURE 3.1 PROGRAM ORGANIZATION

$B_1, B_2, \ldots, B_k$. Find all the false vectors $C = (C_1, C_2, \ldots, C_n)$ such that $C > A$ and $c_i > a_i$ for only one i, and denote them as $C_1, C_2, \ldots, C_\ell$. Let the degrees of $B_1, B_2, \ldots, B_k$ be $d_1, d_2, \ldots, d_k$ and the degrees of $C_1, C_2, \ldots, C_\ell$ be $e_1, e_2, \ldots, e_\ell$ respectively. If the vector A is a true vector, then its degree is the maximum of $d_1, d_2, \ldots, d_k$. Otherwise its degree is the maximum of $d_1 + 1, d_2 + 1, \ldots, d_k + 1, e_1, e_2, \ldots, e_\ell$. By this procedure, we can construct the stratified structure of function f at the same time.

⑤ Compute ζ's

For each cluster of vectors, compute ζ.

⑥ Build Stratified Table

Assign smallest binary integer number to each cluster as $L(m_i)$ satisfying the conditions of definition 7 in chapter 2. Construct a stratified truth table.

⑦ Form g_i's

Form g_i's according to Algorithm A.

⑧ Output

Print f and g_i's in the form of Boolean expressions.

4. COMPUTATIONAL RESULTS

This programming package was applied to all representative functions of three and four variables and some functions of more than four variables. For negative gate network design, all functions can be classified into equivalence classes with respect to permutation of variables.

According to this classification there are 80 representative functions for three variable functions and 3984 representative functions for four variable functions [7]. The numbers of gates which are required for three variable representative functions and four variable representative functions are shown in Table 4.1. 71% of three variable functions require two gates and 60% of four variable functions require three gates.

The average computation time per function is shown in Figure 4.1. The average computation time is the average of ten functions which are randomly chosen for each number of variables. Figure 4.1 shows that the computation time exponentially increases according to the number of variables. In the case of ten variable functions, about 95% of the computation time is required to form the Boolean expressions of ζ's. The computation time will be improved by using the modified algorithm described in chapter 5. We can expect to decrease the computation time to half that of Algorithm A.

The computational results of all three and four variable functions are listed in appendices. Examples of networks which are designed based on the computer printouts are also shown in appendices.

	0 gate	1 gate	2 gates	3 gates	Total
No. of functions	3	8	57	12	80

THREE VARIABLE FUNCTIONS

	0 gate	1 gate	2 gates	3 gates	Total
No. of functions	3	28	1577	2376	3984

FOUR VARIABLE FUNCTIONS

TABLE 4.1 THE NUMBER OF FUNCTIONS VS. THE NUMBER OF REQUIRED GATES

In these examples the Boolean expression of each function given in the computer printouts is factored with parentheses whenever it is found to decrease the number of literals. Then based on this Boolean expression, each gate is synthesized by series or parallel connection of MOSFETs corresponding to the logical product or sum, respectively. Since the minimization of the number of MOSFET's is not considered, the number of MOSFET's of these networks may not be minimum. This problem has not been solved yet.

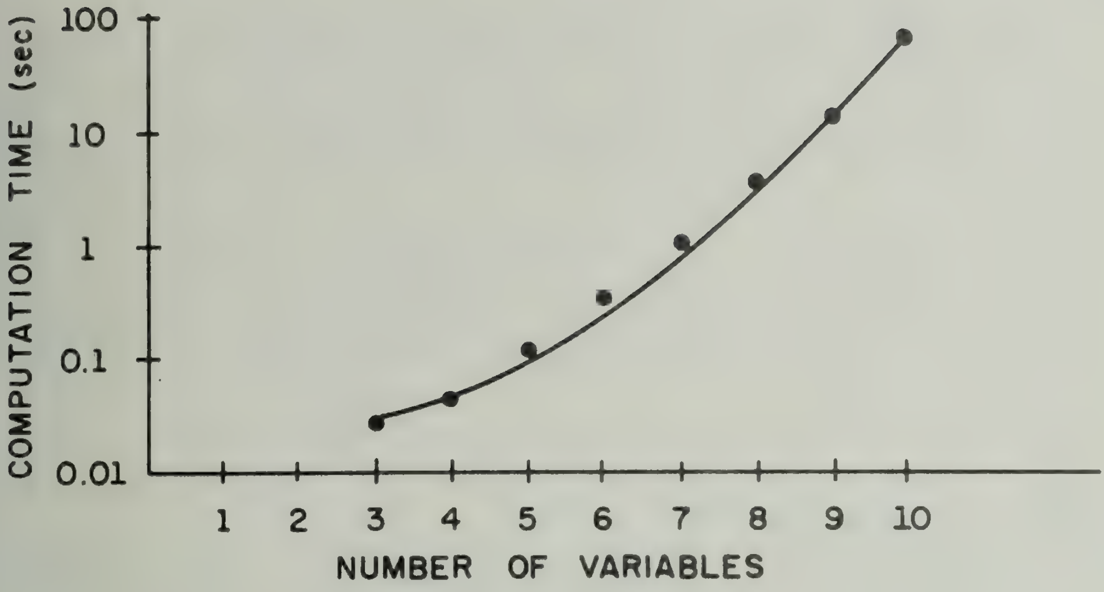

FIGURE 4.1 COMPUTATION TIME VS. NUMBER OF VARIABLES

5. FURTHER CONSIDERATIONS

The algorithm which was developed by Kasami et al. is similar to Liu's early algorithm. In this chapter, an algorithm is developed by combining Liu's algorithm and Kasami's algorithm in order to improve the processing speed. This modified algorithm is efficient to find the irredundant disjunctive form of each gate function. In this chapter we discuss the modified algorithm and compare it with Algorithm A in chapter 2.

5.1 INVERSION COMPLEXITY

Let V_n be the set of all n-dimensional binary vectors with each coordinate of 0 or 1. Each vector in V_n is represented as a vertex of an n-dimensional cube C_n so that two vectors A and B are adjacent if and only if A differs from B at exactly one component. Each edge is directed from A to B if $A > B$ and is denoted by $\vec{AB}$. Let $f_1, f_2, \ldots, f_m$ be completely specified Boolean functions of n variables. When each vertex A of C_n is labeled with a binary number

$$\ell\,(A;\, f_1, \ldots, f_m) = \sum_{i=1}^{m} f_i\,(A)\, 2^{m-i}\,,\quad C_n \text{ is referred to as}$$

$C_n(f_1, \ldots, f_m)$. A directed edge $\vec{AB}$ is called an inverse edge of $C_n(f_1, \ldots, f_m)$ if and only if $\ell\,(A\,;\, f_1, \ldots, f_m) > \ell\,(B\,;\, f_1, \ldots, f_m)$. The number of inverse edges included in a directed path P of $C_n(f_1, \ldots, f_m)$ is called the number of inversions of the path P. And the maximum number of inversions over all directed paths of

$C_n(f_1, \ldots, f_m)$ is called the number of inversions of $C_n(f_1, \ldots, f_m)$ and denoted by $R(f_1, \ldots, f_m)$.

A Boolean function f is negative if and only if $\ell(A; f) \leq \ell(B; f)$ for every edge $\overrightarrow{AB}$ of C_n. When a logic network is realized with negative gates only, the minimum number of negative gates N(f) is given by

$$N(f) = [\log_2 \{ R(f) + 1 \}] + 1$$

where [a] is the smallest integer not smaller than a.

5.2 MODIFIED ALGORITHM

A generalized feed-forward network which consists of r negative gates is shown in Figure 5.1. Any networks with r negative gates can be obtained by deleting some of the interconnections from Figure 5.1. In Figure 5.1 $x_1, x_2, \ldots, x_n$ denote input variables, g_i denotes the i-th gate from the left, $g_i(x_1, \ldots, x_n, u_1, \ldots, u_{i-1})$ is the function which gate g_i realizes, and $u_i(x_1, \ldots, x_n)$ is the output function of gate g_i in terms of $x_1, \ldots, x_n$. The following lemma and algorithm are shown by Kasami et al.

Lemma 1: For a network of the form in Figure 5.1, $C_n(u_1, \ldots, u_{r-1}, f)$ has no inverse edge. Conversely, if $C_n(u_1, \ldots, u_{r-1}, f)$ has no inverse edge then $u_1, \ldots, u_{r-1}, f$ can be realized by a network of the form in Figure 5.1. This lemma immediately leads to the following algorithm which gives a minimum number of negative gates and a set of $u_1, \ldots, u_{r-1}, f$ for a given single output function f.

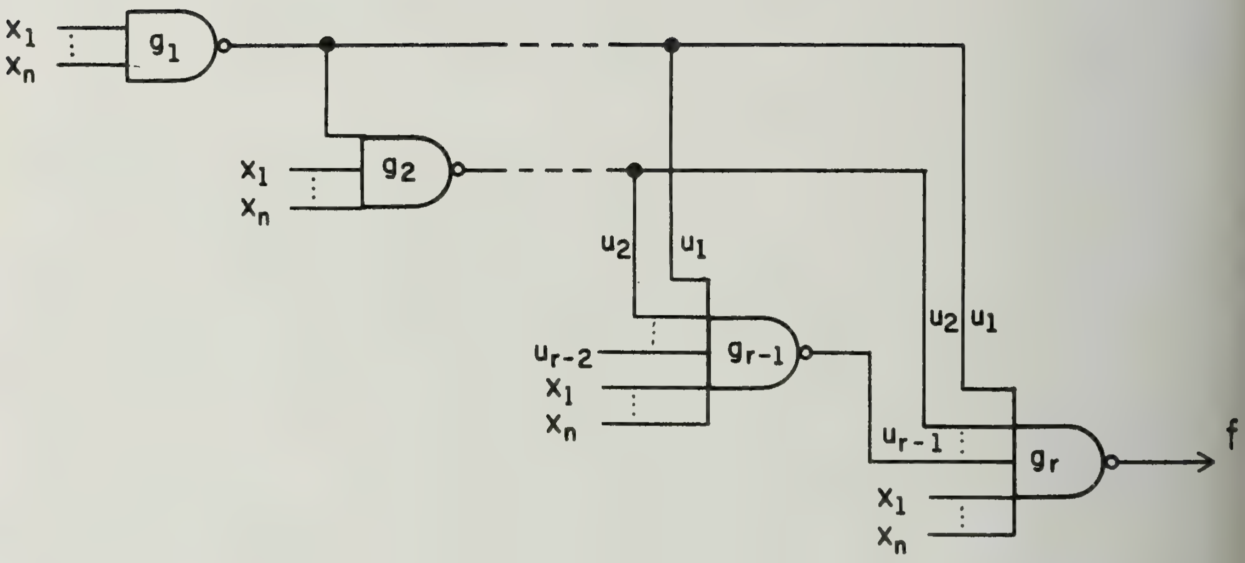

FIGURE 5.1 GENERALIZED FEED-FORWARD NETWORK WITH r NEGATIVE GATES

Algorithm 1.

Step 1: Assign the value of $f(x)$ to $L(I)$, where $L(A)$ denotes a label to be attached to a vertex A of C_n. I denotes the vector $(1, \ldots, 1) \in V_n$.

Step 2: When $L(A)$ is assigned to every vertex A of weight W of C_n (weight is the number of 1 elements in a vector), assign the smallest binary integer as $L(B)$ to vertex B of weight $W-1$, such that

(a) The least significant bit of $L(B)$ is $f(B)$.

(b) $L(B) \geq L(A)$ for every vertex A whose weight is W.

Step 3: Repeat step 2 until $L(0)$ is assigned, where 0 is the vector $(0, 0, \ldots, 0) \in V_n$.

Generally there are other networks with a minimum number of negative gates than the network obtained by Algorithm 1, because as long as $L(0)$ is less than $2^{\acute{N}(f)}$ and the two conditions in Step 2 are satisfied, a greater integer (instead of the smallest integer that Algorithm 1 describes) can be assigned to $L(B)$ without increasing the number of negative gates. This alternative affects the number of interconnections and also the structure of each gate. Appropriate binary integer assignment may make the complexity of each gate more equally distributed, and also may reduce the total number of MOSFETs. In this paper this problem will not be discussed further.

The Boolean expressions of g_i's are obtained by the following algorithm. This algorithm is developed based on Liu's early algorithm and Kasami et al.'s.

Algorithm 2.

Step 1: Divide all the vectors into groups so that all vectors in each group have the same label. Let us call these groups m_0, m_1, m_2, . . ., m_k, where m_j has a smaller label than m_{j+1} $(j = 0, 1, \ldots, k-1)$.

Step 2: For each vector, make the logical product of only the variables which are 1 in the vector. If there is no such variable, the logical product is defined to be 1. For each group, make the logical sum of the products corresponding to vectors which belong to the group. Let us call these logical sums ζ_0 for m_0, ζ_1 for m_1, ζ_2 for m_2, etc.

Step 3: Choose m_j's from m_0, m_1, . . ., m_k whose label $L(m_j)$ has $u_{i+1} = 0$, where u_{i+1} is the $i+1$ st digit of the label from the left. And for each selected m_j, make the logical product of ζ_j and g_i's which have $u_i = 1$.

Step 4: Make the logical sum of all the products obtained by Step 3. Let us denote this sum of products with $\overline{g_{i+1}}$.

Step 5: Repeat Step 3 and Step 4 for all $i (i = 0, 1, \ldots, r-1)$, where r is the number of negative gates $N(f)$. g_i is the Boolean function of the i th gate from the left. g_r represents the function f of the last gate.

The difference between this algorithm and Kasami's is dividing the vectors into groups which have the same labels. This grouping technique makes the calculation of g_i's faster especially when the number of variables increases.

Example

$f = \Sigma\ (0, 4, 6, 8, 10, 11, 12, 13, 14, 15)$

First assign binary integer numbers to all vertexes as labels by Algorithm 1. All labels must satisfy the two conditions in Step 2. This assignment is shown in Figure 5.2. Functions g_i's are obtained from the labels by Algorithm 2.

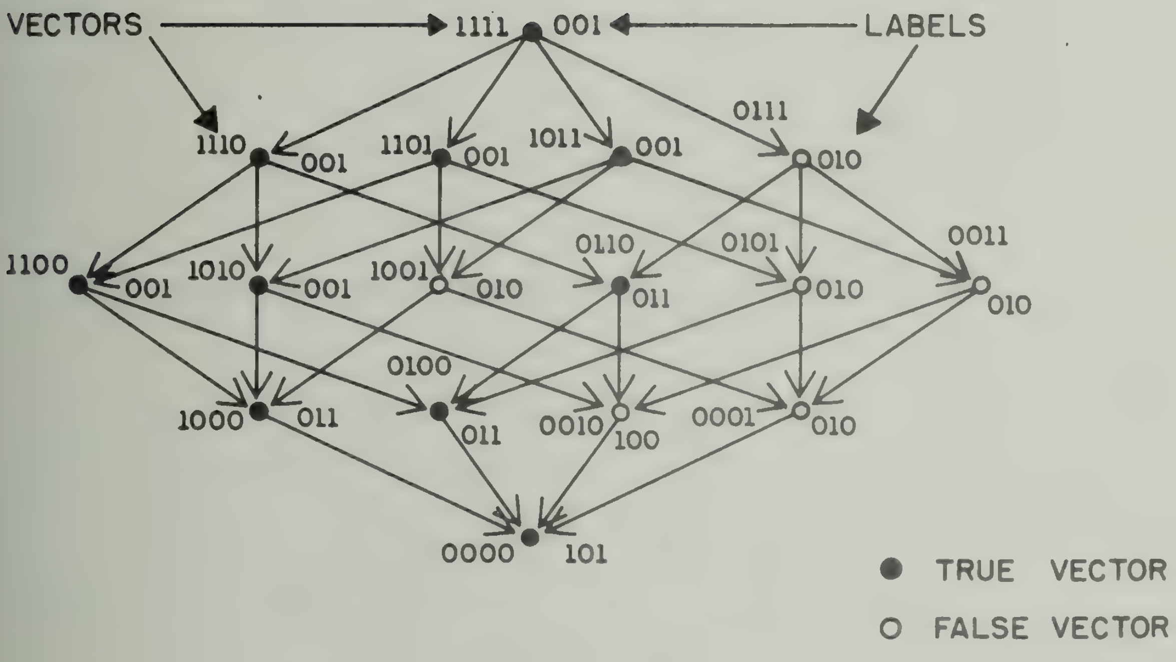

FIGURE 5.2 BINARY INTEGER NUMBER ASSIGNMENT

By Step 1, group the input vectors.

$m_0 = \{1111, 1110, 1101, 1011, 1100, 1010\}$

label 001

$m_1 = \{0111, 0011, 0101, 1001, 0001\}$

label 010

$m_2 = \{1000, 0100, 0110\}$

label 011

$m_3 = \{0010\}$

label 100

$m_4 = \{0000\}$

label 101

By Step 2

$$\zeta_0 = x_1x_2 \vee x_1x_3$$

$$\zeta_1 = x_4$$

$$\zeta_2 = x_1 \vee x_2$$

$$\zeta_3 = x_3$$

$$\zeta_4 = 1$$

By Steps 3 and 4

$$\bar{g}_1 = \zeta_0 \vee \zeta_1 \vee \zeta_2 = x_1x_2 \vee x_1x_3 \vee x_4 \vee x_1 \vee x_2$$

$$= x_1 \vee x_2 \vee x_4$$

$$\bar{g}_2 = \zeta_0 \vee \zeta_3g_1 \vee \zeta_4g_1 = x_1x_2 \vee x_1x_3 \vee x_3g_1 \vee g_1$$

$$= x_1x_2 \vee x_1x_3 \vee g_1$$

$$\bar{f} = \zeta_1g_2 \vee \zeta_3g_1 = x_4g_2 \vee x_3g_1$$

From this result, we can obtain the logic network with MOS gates shown in Figure 5.3.

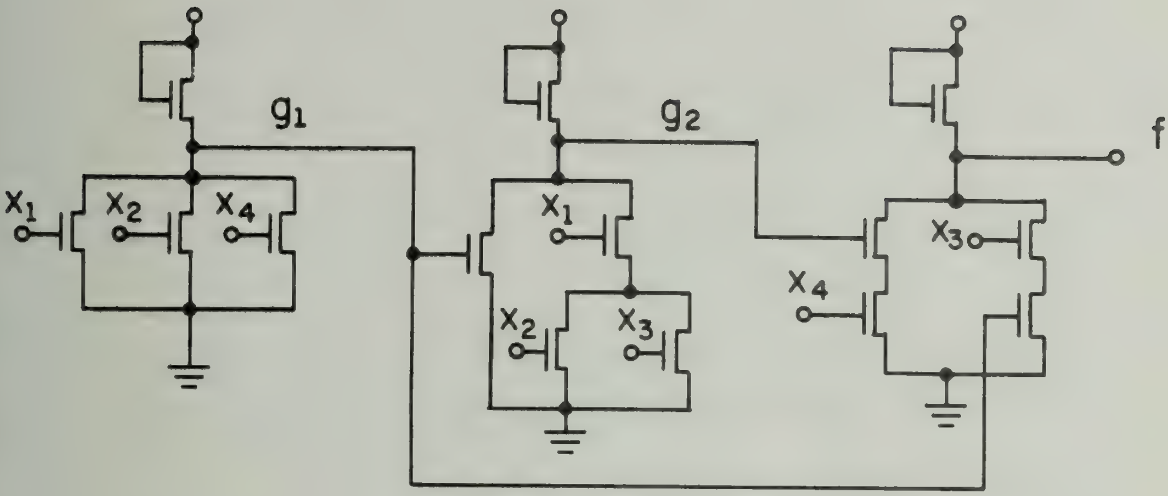

FIGURE 5.3 MOS NETWORK DESIGNED BY ALGORITHM 1 AND 2

5.3 COMPARISON OF TWO ALGORITHMS

The modified algorithm is better than Algorithm A in chapter 2 in the following points.

(a) In Algorithm A, attached true vectors have to be found and removed from function f. Since in the modified algorithm, it is not required to find attached true vectors, this procedure can be completely omitted.

(b) In Algorithm A, two equations must be calculated in order to obtain the Boolean expressions of ζ's. If we need irredundant disjunctive forms for the expressions of g_i's, the calculation is complicated and it requires considerable computation time. In the modified algorithm, only one equation is necessary, and an irredundant disjunctive form can be obtained by simple calculation.

(c) In the modified algorithm, the Boolean expression of g_i is more easily found than Algorithm A because in Algorithm A, the procedure to find prohibiting products is complicated. (Generally, if we assign the smallest binary integer to each group of vectors as a label $L(m_i)$, we can simplify the procedure to find prohibiting products.)

The network obtained by the modified algorithm is usually different from the network by Algorithm A, because the Boolean expression obtained by the modified algorithm is a sum of product form, and the other one is a product of sum form. In addition to this difference, there are some other differences caused by the following reasons.

(a) In Algorithm A, attached true vectors are removed from the given function f, and g_i's are formed for the new function fs.

(b) In Algorithm A, true vectors are used to find the functions g_i's, and all don't care vectors are set to 0. But in the modified algorithm, false vectors are used, and all don't care vectors are set to 1.

Hence even if we compare the two results in the same form (e.g. sum of product form) by converting one of them to the other form, they are usually different.

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APPENDIX A

f AND g_i's OBTAINED BY COMPUTER FOR ALL REPRESENTATIVE FUNCTIONS OF THREE VARIABLES

In Table A, the three digit numbers in the far left column of the list represent the functions with octal numbers which are formed from the output column in the truth table. The binary digits in the output column (downward from the top) are divided into three groups and each group is expressed by an octal digit as shown in Figure A.

$$f = \bar{x}_1\bar{x}_3 \vee \bar{x}_1x_2 \vee x_2\bar{x}_3 \vee x_1\bar{x}_2x_3$$
$$= \Sigma\ (0,\ 2,\ 3,\ 5,\ 6)$$

	$\bar{x}_1\bar{x}_2\bar{x}_3$	$\bar{x}_1\bar{x}_2x_3$	$\bar{x}_1x_2\bar{x}_3$	$\bar{x}_1x_2x_3$	$x_1\bar{x}_2\bar{x}_3$	$x_1\bar{x}_2x_3$	$x_1x_2\bar{x}_3$	$x_1x_2x_3$
Binary	1	0	1	1	0	1	1	0
Octal	2		6			6		

FIGURE A OCTAL REPRESENTATION OF A THREE VARIABLE FUNCTION

In the representation of the function of each gate, the following notations are used.

XI : x_i

GI : g_i

F : f

¬ : Complement

+ : $\vee$

For example, G1 = ¬ (X1 + X2 X3) F = ¬ (X1) ¬ G1

means $g_1 = \overline{x_1 \vee x_2 x_3}$

$f = \bar{x}_1 \bar{g}_1$

TABLE A f AND g_i's OBTAINED BY COMPUTER FOR ALL REPRESENTATIVE FUNCTIONS OF THREE VARIABLES

```
001   G1= ¬(X1X2X3)     F=  ¬G1
020   G1= ¬(X1 +X2X3)     F= ¬(X1)  ¬G1
021   G1= ¬(X2X3)     F=  ¬G1
024   G1= ¬(X1X2 +X2X3 +X1X3)     F= ¬(X1X2)  ¬G1
025   G1= ¬(X2X3 +X1X3)     F=  ¬G1
026   G1= ¬(X2X3 +X1X3 +X1X2)     F= ¬(X1X2X3)  ¬G1
027   G1= ¬(X2X3 +X1X3 +X1X2)     F=  ¬G1
030   G1= ¬(X2X3 +X1)     F= ¬(X1X3 +X1X2)  ¬G1
031   G1= ¬(X3 +X2 +X1)   G2= ¬(X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1
064   G1= ¬(X2 +X1X3)     F= ¬(X1X2)  ¬G1
065   G1= ¬(X3 +X1 +X2)   G2= ¬(X2X3 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1)  ¬G1
074   G1= ¬(X2 +X1)     F= ¬(X1X2)  ¬G1
075   G1= ¬(X3 +X2 +X1)   G2= ¬(X2X3 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1
100   G1= ¬(X2 +X1 +X3)     F= ¬(X2 +X1)  ¬G1
101   G1= ¬(X2 +X1 +X3)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2 +X1)  ¬G1
120   G1= ¬(X1 +X3)     F= ¬(X1)  ¬G1
121   G1= ¬(X2 +X1 +X3)   G2= ¬(X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2 +X1)  ¬G1
124   G1= ¬(X1X2 +X3)     F= ¬(X1X2)  ¬G1
126   G1= ¬(X3 +X1X2)     F= ¬(X1X2X3)  ¬G1
127   G1= ¬(X3 +X1X2)     F=  ¬G1
130   G1= ¬(X3 +X1)     F= ¬(X1X3 +X1X2)  ¬G1
131   G1= ¬(X2 +X3 +X1)   G2= ¬(X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2 +X1X3)  ¬G1
140   G1= ¬(X1 +X3 +X2)     F= ¬(X2X3 +X1)  ¬G1
141   G1= ¬(X1 +X3 +X2)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3 +X1)  ¬G1
150   G1= ¬(X3 +X2 +X1)     F= ¬(X2X3 +X1X3 +X1X2)  ¬G1
151   G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3 +X1X2)  ¬G1
160   G1= ¬(X1 +X3 +X2)     F= ¬(X1)  ¬G1
161   G1= ¬(X1 +X3 +X2)   G2= ¬(X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3 +X1)  ¬G1
164   G1= ¬(X3 +X2)     F= ¬(X1X2)  ¬G1
165   G1= ¬(X3 +X1 +X2)   G2= ¬(X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1)  ¬G1
166   G1= ¬(X3 +X2)     F= ¬(X1X2X3)  ¬G1
167   G1= ¬(X3 +X2)     F=  ¬G1
170   G1= ¬(X3 +X2 +X1)     F= ¬(X1X3 +X1X2)  ¬G1
171   G1= ¬(X3 +X2 +X1)   G2= ¬(X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3 +X1X2)  ¬G1
174   G1= ¬(X3 +X2 +X1)     F= ¬(X1X2)  ¬G1
175   G1= ¬(X3 +X2 +X1)   G2= ¬(X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1
176   G1= ¬(X3 +X2 +X1)     F= ¬(X1X2X3)  ¬G1
177   G1= ¬(X3 +X2 +X1)     F=  ¬G1
200    F= ¬(X3 +X2 +X1)
201   G1= ¬(X1X2X3)     F=  ¬G1+ ¬(X3 +X2 +X1)
220   G1= ¬(X1 +X2X3)     F= ¬(X1)  ¬G1+ ¬(X3 +X2 +X1)
221   G1= ¬(X2X3)     F=  ¬G1+ ¬(X3 +X2 +X1)
224   G1= ¬(X1X2 +X2X3 +X1X3)     F= ¬(X1X2)  ¬G1+ ¬(X3 +X2 +X1)
225   G1= ¬(X2X3 +X1X3)     F=  ¬G1+ ¬(X3 +X2 +X1)
226   G1= ¬(X2X3 +X1X3 +X1X2)     F= ¬(X1X2X3)  ¬G1+ ¬(X3 +X2 +X1)
227   G1= ¬(X2X3 +X1X3 +X1X2)     F=  ¬G1+ ¬(X3 +X2 +X1)
230   G1= ¬(X1 +X2X3)     F= ¬(X1)  ¬G1+ ¬(X3 +X2)
231   G1= ¬(X2X3)     F=  ¬G1+ ¬(X3 +X2)
264   G1= ¬(X1X2 +X2X3 +X1X3)     F= ¬(X1X2)  ¬G1+ ¬(X3 +X1)
265   G1= ¬(X2X3 +X1X3)     F=  ¬G1+ ¬(X3 +X1)
274   G1= ¬(X1X2 +X2X3 +X1X3)     F= ¬(X1X2)  ¬G1+ ¬(X3 +X1X2)
275   G1= ¬(X2X3 +X1X3)     F=  ¬G1+ ¬(X3 +X1X2)
300    F= ¬(X2 +X1)
301   G1= ¬(X1X2X3)     F=  ¬G1+ ¬(X2 +X1)
320   G1= ¬(X1 +X2X3)     F= ¬(X1)  ¬G1+ ¬(X2 +X1)
321   G1= ¬(X2X3)     F=  ¬G1+ ¬(X2 +X1)
324   G1= ¬(X1X2 +X2X3 +X1X3)     F= ¬(X1X2)  ¬G1+ ¬(X2 +X1)
325   G1= ¬(X2X3 +X1X3)     F=  ¬G1+ ¬(X2 +X1)
326   G1= ¬(X2X3 +X1X3 +X1X2)     F= ¬(X1X2X3)  ¬G1+ ¬(X2 +X1)
327   G1= ¬(X2X3 +X1X3 +X1X2)     F=  ¬G1+ ¬(X2 +X1)
```

```
330   G1= ¬(X1 +X2X3)     F= ¬(X1)  ¬G1+ ¬(X2 +X1X3)
331   G1= ¬(X2X3)     F=   ¬G1+ ¬(X2 +X1X3)
340    F= ¬(X2X3 +X1)
341   G1= ¬(X1X2X3)     F=   ¬G1+ ¬(X2X3 +X1)
350    F= ¬(X2X3 +X1X3 +X1X2)
351   G1= ¬(X1X2X3)     F=   ¬G1+ ¬(X2X3 +X1X3 +X1X2)
360    F= ¬(X1)
361   G1= ¬(X1X2X3)     F=   ¬G1+ ¬(X1)
364   G1= ¬(X2 +X1X3)     F= ¬(X2)  ¬G1+ ¬(X1)
365   G1= ¬(X1X3)     F=   ¬G1+ ¬(X1)
366   G1= ¬(X2X3 +X1X3 +X1X2)     F= ¬(X2X3)  ¬G1+ ¬(X1)
367   G1= ¬(X1X3 +X1X2)     F=   ¬G1+ ¬(X1)
370    F= ¬(X1X3 +X1X2)
371   G1= ¬(X1X2X3)     F=   ¬G1+ ¬(X1X3 +X1X2)
374    F= ¬(X1X2)
375   G1= ¬(X1X2X3)     F=   ¬G1+ ¬(X1X2)
376    F= ¬(X1X2X3)
```

APPENDIX B

f AND g_i's OBTAINED BY COMPUTER FOR ALL REPRESENTATIVE FUNCTIONS OF FOUR VARIABLES

In Table B, four digit hexadecimal numbers are used to represent the functions. Each digit represents four binary digits of truth table in the same way as three variable function.

TABLE B f AND g_i's OBTAINED BY COMPUTER FOR ALL REPRESENTATIVE FUNCTIONS OF FOUR VARIABLES

```
0001  G1= ¬(X1X2X3X4)     F=  ¬G1
0002  G1= ¬(X4 +X1X2X3)     F= ¬(X4)  ¬G1
0003  G1= ¬(X1X2X3)     F=  ¬G1
0006  G1= ¬(X3X4 +X1X2X4 +X1X2X3)     F= ¬(X3X4)  ¬G1
0007  G1= ¬(X1X2X4 +X1X2X3)     F=  ¬G1
0008  G1= ¬(X4 +X3 +X1X2)     F= ¬(X4 +X3)  ¬G1
0009  G1= ¬(X4 +X3 +X1X2)   G2= ¬(X1X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1
000B  G1= ¬(X4 +X3 +X1X2)   G2= ¬(X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1
000E  G1= ¬(X3X4 +X1X2)     F= ¬(X3X4)  ¬G1
0016  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F= ¬(X2X3X4)  ¬G1
0017  G1= ¬(X1X3X4 +X1X2X4 +X1X2X3)     F=  ¬G1
0018  G1= ¬(X2X4 +X2X3 +X1X3X4 +X1X2)     F= ¬(X2X4 +X2X3)  ¬G1
0019  G1= ¬(X4 +X3 +X1X2)   G2= ¬(X1X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1
001A  G1= ¬(X2X4 +X1X3X4 +X1X2)     F= ¬(X2X4)  ¬G1
001B  G1= ¬(X4 +X3 +X1X2)   G2= ¬(X1X3X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1
001E  G1= ¬(X2X3X4 +X1X3X4 +X1X2)     F= ¬(X2X3X4)  ¬G1
001F  G1= ¬(X1X3X4 +X1X2)     F=  ¬G1
0028  G1= ¬(X4 +X2X3 +X1X3 +X1X2)     F= ¬(X4 +X2X3)  ¬G1
0029  G1= ¬(X4 +X2X3 +X1X3 +X1X2)   G2= ¬(X1X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
002A  G1= ¬(X4 +X1X3 +X1X2)     F= ¬(X4)  ¬G1
002B  G1= ¬(X4 +X2X3 +X1X3 +X1X2)   G2= ¬(X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
002C  G1= ¬(X3X4 +X2X3 +X1X3 +X1X2)     F= ¬(X3X4 +X2X3)  ¬G1
002D  G1= ¬(X4 +X2X3 +X1X3 +X1X2)   G2= ¬(X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
002E  G1= ¬(X3X4 +X1X3 +X1X2)     F= ¬(X3X4)  ¬G1
002F  G1= ¬(X4 +X2 +X1X3)   G2= ¬(X1X2)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2)  ¬G1
003D  G1= ¬(X4 +X2X3 +X1X3 +X1X2)   G2= ¬(X1X3X4 +X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
003E  G1= ¬(X2X3X4 +X1X3 +X1X2)     F= ¬(X2X3X4)  ¬G1
0068  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X3X4 +X2X4 +X2X3)  ¬G1
0069  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   G2= ¬(X1X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)  ¬G1
006A  G1= ¬(X3X4 +X2X4 +X1X4 +X1X3 +X1X2)     F= ¬(X3X4 +X2X4)  ¬G1
006B  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   G2= ¬(X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)  ¬G1
006E  G1= ¬(X3X4 +X1X4 +X1X3 +X1X2)     F= ¬(X3X4)  ¬G1
006F  G1= ¬(X3X4 +X2 +X1X4 +X1X3)   G2= ¬(X1X2)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2)  ¬G1
007E  G1= ¬(X2X3X4 +X1X4 +X1X3 +X1X2)     F= ¬(X2X3X4)  ¬G1
007F  G1= ¬(X1X4 +X1X3 +X1X2)     F=  ¬G1
0080  G1= ¬(X4 +X3 +X2 +X1)     F= ¬(X4 +X3 +X2)  ¬G1
0081  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
0082  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X4 +X1X2X3)  ¬G1    F= ¬(X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
0083  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
0085  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X1X2X4 +X1X2X3)  ¬G1    F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
0087  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
0089  G1= ¬(X4 +X3 +X1)   G2= ¬(X1X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1
008A  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X4 +X1X2)  ¬G1    F= ¬(X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
008B  G1= ¬(X4 +X3 +X1)   G2= ¬(X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1
008E  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X1X2)  ¬G1    F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
008F  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
0096  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)  ¬G1    F= ¬(X2X3X4)  ¬G1 ¬G2
       + ¬(X4 +X3 +X2)  ¬G1
0097  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X3X4 +X1X2X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
0098  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X3X4 +X1X2)  ¬G1    F= ¬(X2X4 +X2X3)  ¬G1 ¬G2
       + ¬(X4 +X3 +X2)  ¬G1
009A  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X1X3X4 +X1X2)  ¬G1    F= ¬(X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
009B  G1= ¬(X4 +X3 +X1)   G2= ¬(X1X3X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1
009E  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2)  ¬G1    F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
009F  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X3X4 +X1X2)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
00A8  G1= ¬(X4 +X2X3 +X1)     F= ¬(X4 +X2X3)  ¬G1
00A9  G1= ¬(X4 +X2X3 +X1)   G2= ¬(X1X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
00AB  G1= ¬(X4 +X2X3 +X1)   G2= ¬(X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
00AC  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X3 +X1X2)  ¬G1    F= ¬(X3X4 +X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
00AD  G1= ¬(X4 +X2X3 +X1)   G2= ¬(X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
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00AE  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X1X3 +X1X2)  ¬G1   F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
00BC  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3 +X1X2)  ¬G1   F= ¬(X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
00BD  G1= ¬(X4 +X2X3 +X1)   G2= ¬(X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
00BE  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3 +X1X2)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
00BF  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X3 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
00E8  G1= ¬(X3X4 +X2X4 +X2X3 +X1)    F= ¬(X3X4 +X2X4 +X2X3)  ¬G1
00E9  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)  ¬G1
00EA  G1= ¬(X3X4 +X2X4 +X1)    F= ¬(X3X4 +X2X4)  ¬G1
00EB  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)  ¬G1
00EF  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2)  ¬G1
00FE  G1= ¬(X2X3X4 +X1)    F= ¬(X2X3X4)  ¬G1
0116  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)    F= ¬(X1X2X3X4)  ¬G1
0117  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)    F=  ¬G1
0118  G1= ¬(X2X3X4 +X1X3X4 +X1X2)    F= ¬(X1X2X4 +X1X2X3)  ¬G1
0119  G1= ¬(X4 +X3 +X1X2)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1
011A  G1= ¬(X2X3X4 +X1X3X4 +X1X2)    F= ¬(X1X2X4)  ¬G1
011B  G1= ¬(X4 +X3 +X1X2)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1
011E  G1= ¬(X2X3X4 +X1X3X4 +X1X2)    F= ¬(X1X2X3X4)  ¬G1
011F  G1= ¬(X2X3X4 +X1X3X4 +X1X2)    F=  ¬G1
0128  G1= ¬(X1X4 +X2X3X4 +X1X3 +X1X2)    F= ¬(X1X4 +X1X2X3)  ¬G1
0129  G1= ¬(X4 +X2X3 +X1X3 +X1X2)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
012A  G1= ¬(X1X4 +X2X3X4 +X1X3 +X1X2)    F= ¬(X1X4)  ¬G1
012B  G1= ¬(X4 +X2X3 +X1X3 +X1X2)   G2= ¬(X2X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
012C  G1= ¬(X2X3X4 +X1X3 +X1X2)    F= ¬(X1X3X4 +X1X2X3)  ¬G1
012D  G1= ¬(X4 +X2X3 +X1X3 +X1X2)   G2= ¬(X2X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
012E  G1= ¬(X2X3X4 +X1X3 +X1X2)    F= ¬(X1X3X4)  ¬G1
012F  G1= ¬(X4 +X2 +X1X3)   G2= ¬(X2X3X4 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2)  ¬G1
013C  G1= ¬(X2X3X4 +X1X3 +X1X2)    F= ¬(X1X2X3)  ¬G1
013D  G1= ¬(X4 +X2X3 +X1X3 +X1X2)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
013E  G1= ¬(X2X3X4 +X1X3 +X1X2)    F= ¬(X1X2X3X4)  ¬G1
013F  G1= ¬(X2X3X4 +X1X3 +X1X2)    F=  ¬G1
0168  G1= ¬(X2X3X4 +X1X4 +X1X3 +X1X2)    F= ¬(X1X3X4 +X1X2X4 +X1X2X3)  ¬G1
0169  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)  ¬G1
016A  G1= ¬(X2X3X4 +X1X4 +X1X3 +X1X2)    F= ¬(X1X3X4 +X1X2X4)  ¬G1
016B  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   G2= ¬(X2X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)  ¬G1
016E  G1= ¬(X2X3X4 +X1X4 +X1X3 +X1X2)    F= ¬(X1X3X4)  ¬G1
016F  G1= ¬(X3X4 +X2 +X1X4 +X1X3)   G2= ¬(X2X3X4 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2)  ¬G1
017E  G1= ¬(X2X3X4 +X1X4 +X1X3 +X1X2)    F= ¬(X1X2X3X4)  ¬G1
017F  G1= ¬(X2X3X4 +X1X4 +X1X3 +X1X2)    F=  ¬G1
0180  G1= ¬(X2X3X4 +X1)    F= ¬(X1X4 +X1X3 +X1X2)  ¬G1
0181  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
0182  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X4 +X2X3X4 +X1X2X3)  ¬G1   F= ¬(X1X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
0183  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
0186  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X3X4 +X2X3X4 +X1X2X4 +X1X2X3)  ¬G1   F= ¬(X1X3X4)  ¬G1 ¬G2
           + ¬(X4 +X3 +X2)  ¬G1
0187  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
0188  G1= ¬(X2X3X4 +X1)    F= ¬(X1X4 +X1X3)  ¬G1
0189  G1= ¬(X4 +X3 +X1)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1
018A  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X4 +X2X3X4 +X1X2)  ¬G1   F= ¬(X1X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
018B  G1= ¬(X4 +X3 +X1)   G2= ¬(X2X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1
018E  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X3X4 +X2X3X4 +X1X2)  ¬G1   F= ¬(X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
018F  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
0196  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2
           + ¬(X4 +X3 +X2)  ¬G1
0197  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
0198  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2)  ¬G1   F= ¬(X1X2X4 +X1X2X3)  ¬G1 ¬G2
           + ¬(X4 +X3 +X2)  ¬G1
0199  G1= ¬(X4 +X3 +X1)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1
019A  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2)  ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
019B  G1= ¬(X4 +X3 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1
019E  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
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019F  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2)  ¬G1   F= ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
01A8  G1= ¬(X2X3X4 +X1)   F= ¬(X1X4 +X1X2X3)  ¬G1
01A9  G1= ¬(X4 +X2X3 +X1)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
01AA  G1= ¬(X2X3X4 +X1)   F= ¬(X1X4)  ¬G1
01AB  G1= ¬(X4 +X2X3 +X1)   G2= ¬(X2X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
01AC  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3 +X1X2)  ¬G1   F= ¬(X1X3X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
01AD  G1= ¬(X4 +X2X3 +X1)   G2= ¬(X2X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
01AE  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3 +X1X2)  ¬G1   F= ¬(X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
01AF  G1= ¬(X4 +X2 +X1)   G2= ¬(X2X3X4 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2)  ¬G1
01BC  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3 +X1X2)  ¬G1   F= ¬(X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
01BD  G1= ¬(X4 +X2X3 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
01BE  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3 +X1X2)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
01BF  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
01E8  G1= ¬(X2X3X4 +X1)   F= ¬(X1X3X4 +X1X2X4 +X1X2X3)  ¬G1
01E9  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)  ¬G1
01EA  G1= ¬(X2X3X4 +X1)   F= ¬(X1X3X4 +X1X2X4)  ¬G1
01EB  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X2X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)  ¬G1
01EE  G1= ¬(X2X3X4 +X1)   F= ¬(X1X3X4)  ¬G1
01EF  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X2X3X4 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2)  ¬G1
01FE  G1= ¬(X2X3X4 +X1)   F= ¬(X1X2X3X4)  ¬G1
01FF  G1= ¬(X2X3X4 +X1)   F=  ¬G1
0228  G1= ¬(X4 +X2X3 +X1X3 +X1X2)   F= ¬(X4 +X1X2X3)  ¬G1
0229  G1= ¬(X4 +X2X3 +X1X3 +X1X2)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1
022A  G1= ¬(X4 +X2X3 +X1X3 +X1X2)   F= ¬(X4)  ¬G1
022B  G1= ¬(X4 +X2X3 +X1X3 +X1X2)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1
022C  G1= ¬(X3X4 +X2X3 +X1X3 +X1X2)   F= ¬(X3X4 +X1X2X3)  ¬G1
022D  G1= ¬(X4 +X2X3 +X1X3 +X1X2)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1
022E  G1= ¬(X3X4 +X2X3 +X1X3 +X1X2)   F= ¬(X3X4)  ¬G1
022F  G1= ¬(X4 +X1X2 +X2X3 +X1X3)   G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2)  ¬G1
023C  G1= ¬(X2X3 +X1X3 +X1X2)   F= ¬(X2X3X4 +X1X2X3)  ¬G1
023D  G1= ¬(X4 +X2X3 +X1X3 +X1X2)   G2= ¬(X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1
023E  G1= ¬(X2X3 +X1X3 +X1X2)   F= ¬(X2X3X4)  ¬G1
023F  G1= ¬(X4 +X1 +X2X3)   G2= ¬(X1X3 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1)  ¬G1
0240  G1= ¬(X3X4 +X2X4 +X1X3 +X1X2 +X2X3 +X1X4)   F= ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
0241  G1= ¬(X3X4 +X2X4 +X1X3 +X1X2 +X2X3 +X1X4)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
0242  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4)   F= ¬(X3X4 +X2X4)  ¬G1
0243  G1= ¬(X3X4 +X2X4 +X1X3 +X1X2 +X2X3 +X1X4)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
0246  G1= ¬(X3X4 +X2X3 +X1X4)   F= ¬(X3X4)  ¬G1
0247  G1= ¬(X3X4 +X2X4 +X1X3 +X1X2 +X2X3 +X1X4)   G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
0248  G1= ¬(X3X4 +X2X4 +X1X3 +X2X3 +X1X4 +X1X2)   F= ¬(X3X4 +X2X4 +X1X3)  ¬G1
0249  G1= ¬(X3X4 +X2X4 +X1X3 +X2X3 +X1X4 +X1X2)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)  ¬G1
024A  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X2)   F= ¬(X3X4 +X2X4)  ¬G1
024B  G1= ¬(X3X4 +X2X4 +X1X3 +X2X3 +X1X4 +X1X2)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)  ¬G1
024E  G1= ¬(X3X4 +X2X3 +X1X4 +X1X2)   F= ¬(X3X4)  ¬G1
024F  G1= ¬(X3X4 +X2X4 +X1X3 +X1X2 +X2X3 +X1X4)   G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
0254  G1= ¬(X2X3 +X1X4)   F= ¬(X2X3X4 +X1X2X3)  ¬G1
0255  G1= ¬(X4 +X1 +X2X3)   G2= ¬(X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1)  ¬G1
0256  G1= ¬(X2X3 +X1X4)   F= ¬(X2X3X4)  ¬G1
0257  G1= ¬(X4 +X1 +X2X3)   G2= ¬(X1X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1)  ¬G1
0258  G1= ¬(X2X4 +X2X3 +X1X4 +X1X2)   F= ¬(X2X4 +X1X2X3)  ¬G1
0259  G1= ¬(X3X4 +X2X4 +X1X3 +X2X3 +X1X4 +X1X2)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)  ¬G1
025A  G1= ¬(X2X4 +X2X3 +X1X4 +X1X2)   F= ¬(X2X4)  ¬G1
025B  G1= ¬(X3X4 +X2X4 +X1X3 +X2X3 +X1X4 +X1X2)   G2= ¬(X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)  ¬G1
025C  G1= ¬(X2X3 +X1X4 +X1X2)   F= ¬(X2X3X4 +X1X2X3)  ¬G1
025D  G1= ¬(X4 +X1X3 +X2X3 +X1X2)   G2= ¬(X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X3)  ¬G1
025E  G1= ¬(X2X3 +X1X4 +X1X2)   F= ¬(X2X3X4)  ¬G1
025F  G1= ¬(X4 +X1 +X2X3)   G2= ¬(X1X4 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1)  ¬G1
0268  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   F= ¬(X3X4 +X2X4 +X1X2X3)  ¬G1
0269  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)  ¬G1
026A  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   F= ¬(X3X4 +X2X4)  ¬G1
026B  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)  ¬G1
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026C  G1= ¬(X3X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X3X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)  ¬G1
026D  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    G2= ¬(X1X2X4)  ¬G1
026E  G1= ¬(X3X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X3X4)  ¬G1
026F  G1= ¬(X3X4 +X2X4 +X1X2 +X2X3 +X1X4 +X1X3)    G2= ¬(X1X2)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2)  ¬G1
027C  G1= ¬(X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X2X3X4 +X1X2X3)  ¬G1
027D  G1= ¬(X4 +X2X3 +X1X3 +X1X2)    G2= ¬(X1X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1
027E  G1= ¬(X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X2X3X4)  ¬G1
027F  G1= ¬(X4 +X1 +X2X3)    G2= ¬(X1X4 +X1X3 +X1X2)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1)  ¬G1
0280  G1= ¬(X4 +X2X3 +X1)     F= ¬(X4 +X1X3 +X1X2)  ¬G1
0281  G1= ¬(X4 +X2X3 +X1)    G2= ¬(X1X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X3 +X1X2)  ¬G1
0282  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X4 +X2X3)  ¬G1    F= ¬(X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
0283  G1= ¬(X4 +X2X3 +X1)    G2= ¬(X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X3 +X1X2)  ¬G1
0284  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X1X3 +X2X3 +X1X2X4)  ¬G1    F= ¬(X3X4 +X1X3)  ¬G1 ¬G2
       + ¬(X4 +X3 +X2)  ¬G1
0285  G1= ¬(X4 +X2X3 +X1)    G2= ¬(X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X3 +X1X2)  ¬G1
0286  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X3 +X1X2X4)  ¬G1    F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
0287  G1= ¬(X4 +X2X3 +X1)    G2= ¬(X1X2X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X3 +X1X2)  ¬G1
0288  G1= ¬(X4 +X2X3 +X1)     F= ¬(X4 +X1X3)  ¬G1
0289  G1= ¬(X4 +X2X3 +X1)    G2= ¬(X1X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X3)  ¬G1
028A  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X4 +X2X3 +X1X2)  ¬G1    F= ¬(X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
028B  G1= ¬(X4 +X2X3 +X1)    G2= ¬(X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X3)  ¬G1
028C  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X1X3 +X2X3 +X1X2)  ¬G1    F= ¬(X3X4 +X1X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
028D  G1= ¬(X4 +X2X3 +X1)    G2= ¬(X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X3)  ¬G1
028E  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X3 +X1X2)  ¬G1    F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
028F  G1= ¬(X4 +X2X3 +X1)    G2= ¬(X1X2)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X3 +X1X2)  ¬G1
0294  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3 +X1X3X4 +X1X2X4)  ¬G1    F= ¬(X2X3X4 +X1X2X3)  ¬G1 ¬G2
       + ¬(X4 +X3 +X2)  ¬G1
0295  G1= ¬(X4 +X2X3 +X1)    G2= ¬(X1X3X4 +X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X3 +X1X2)  ¬G1
0296  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3 +X1X3X4 +X1X2X4)  ¬G1    F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
0297  G1= ¬(X4 +X2X3 +X1)    G2= ¬(X1X3X4 +X1X2X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X3 +X1X2)  ¬G1
0298  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X4 +X2X3 +X1X3X4 +X1X2)  ¬G1    F= ¬(X2X4 +X1X2X3)  ¬G1 ¬G2
       + ¬(X4 +X3 +X2)  ¬G1
0299  G1= ¬(X4 +X2X3 +X1)    G2= ¬(X1X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X3)  ¬G1
029A  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X4 +X2X3 +X1X3X4 +X1X2)  ¬G1    F= ¬(X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
029B  G1= ¬(X4 +X2X3 +X1)    G2= ¬(X1X3X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X3)  ¬G1
029C  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3 +X1X3X4 +X1X2)  ¬G1    F= ¬(X2X3X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
029D  G1= ¬(X4 +X2X3 +X1)    G2= ¬(X1X3X4 +X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X3)  ¬G1
029E  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3 +X1X3X4 +X1X2)  ¬G1    F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
029F  G1= ¬(X4 +X2X3 +X1)    G2= ¬(X1X3X4 +X1X2)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X3 +X1X2)  ¬G1
02A8  G1= ¬(X4 +X2X3 +X1)     F= ¬(X4 +X1X2X3)  ¬G1
02A9  G1= ¬(X4 +X2X3 +X1)    G2= ¬(X1X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1
02AA  G1= ¬(X4 +X2X3 +X1)     F= ¬(X4)  ¬G1
02AB  G1= ¬(X4 +X2X3 +X1)    G2= ¬(X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1
02AC  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X3 +X1X3 +X1X2)  ¬G1    F= ¬(X3X4 +X1X2X3)  ¬G1 ¬G2
       + ¬(X4 +X3 +X2)  ¬G1
02AD  G1= ¬(X4 +X2X3 +X1)    G2= ¬(X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1
02AE  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X3 +X1X3 +X1X2)  ¬G1    F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
02AF  G1= ¬(X4 +X2X3 +X1)    G2= ¬(X1X2)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X2)  ¬G1
02BC  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3 +X1X3 +X1X2)  ¬G1    F= ¬(X2X3X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
02BD  G1= ¬(X4 +X2X3 +X1)    G2= ¬(X1X3X4 +X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1
02BE  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3 +X1X3 +X1X2)  ¬G1    F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
02BF  G1= ¬(X4 +X2X3 +X1)    G2= ¬(X1X3 +X1X2)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X3 +X1X2)  ¬G1
02C0  G1= ¬(X3X4 +X2X4 +X2X3 +X1)     F= ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
02C1  G1= ¬(X3X4 +X2X4 +X2X3 +X1)    G2= ¬(X1X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
02C2  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X4 +X2X3 +X1X4)  ¬G1    F= ¬(X3X4 +X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
02C3  G1= ¬(X3X4 +X2X4 +X2X3 +X1)    G2= ¬(X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
02C4  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X1X3 +X2X3 +X1X4)  ¬G1    F= ¬(X3X4 +X1X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
02C5  G1= ¬(X3X4 +X2X4 +X2X3 +X1)    G2= ¬(X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
02C6  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X3 +X1X4)  ¬G1    F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
02C7  G1= ¬(X3X4 +X2X4 +X2X3 +X1)    G2= ¬(X1X2X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
      G1= ¬(X3X4 +X2X4 +X2X3 +X1)     F= ¬(X3X4 +X2X4 +X1X3)  ¬G1
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02C9  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)  ¬G1
02CA  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X2)  ¬G1   F= ¬(X3X4 +X2X4)  ¬G1 ¬G2
         + ¬(X4 +X3 +X2)  ¬G1
02CB  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)  ¬G1
02CC  G1= ¬(X3X4 +X2X3 +X1)    F= ¬(X3X4 +X1X3)  ¬G1
02CD  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)  ¬G1
02CE  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X4 +X1X2)  ¬G1   F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
02CF  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
02D4  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4)  ¬G1   F= ¬(X2X3X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
02D5  G1= ¬(X4 +X2X3 +X1)   G2= ¬(X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X3 +X1X2)  ¬G1
02D6  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
02D7  G1= ¬(X4 +X2X3 +X1)   G2= ¬(X1X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X3 +X1X2)  ¬G1
02D8  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X4 +X1X2)  ¬G1   F= ¬(X2X4 +X1X2X3)  ¬G1 ¬G2
         + ¬(X4 +X3 +X2)  ¬G1
02D9  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)  ¬G1
02DA  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X4 +X1X2)  ¬G1   F= ¬(X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
02DB  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)  ¬G1
02DC  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4 +X1X2)  ¬G1   F= ¬(X2X3X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
02DD  G1= ¬(X4 +X2X3 +X1)   G2= ¬(X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X3)  ¬G1
02DE  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4 +X1X2)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
02DF  G1= ¬(X4 +X2X3 +X1)   G2= ¬(X1X4 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X3 +X1X2)  ¬G1
02E8  G1= ¬(X3X4 +X2X4 +X2X3 +X1)    F= ¬(X3X4 +X2X4 +X1X2X3)  ¬G1
02E9  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)  ¬G1
02EA  G1= ¬(X3X4 +X2X4 +X2X3 +X1)    F= ¬(X3X4 +X2X4)  ¬G1
02EB  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)  ¬G1
02EC  G1= ¬(X3X4 +X2X3 +X1)    F= ¬(X3X4 +X1X2X3)  ¬G1
02ED  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)  ¬G1
02EE  G1= ¬(X3X4 +X2X3 +X1)    F= ¬(X3X4)  ¬G1
02EF  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2)  ¬G1
02FC  G1= ¬(X2X3 +X1)    F= ¬(X2X3X4 +X1X2X3)  ¬G1
02FD  G1= ¬(X4 +X2X3 +X1)   G2= ¬(X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1
02FE  G1= ¬(X2X3 +X1)    F= ¬(X2X3X4)  ¬G1
02FF  G1= ¬(X4 +X1 +X2X3)   G2= ¬(X1)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1)  ¬G1
0300  G1= ¬(X1 +X2X3)    F= ¬(X1)  ¬G1
0303  G1= ¬(X2X3)    F=  ¬G1
0330  G1= ¬(X1X2 +X2X3 +X1X3)    F= ¬(X1X2)  ¬G1
0333  G1= ¬(X2X3 +X1X3)    F=  ¬G1
033C  G1= ¬(X2X3 +X1X3 +X1X2)    F= ¬(X1X2X3)  ¬G1
033D  G1= ¬(X4 +X2X3 +X1X3 +X1X2)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1
033E  G1= ¬(X2X3 +X1X3 +X1X2)    F= ¬(X1X2X3X4)  ¬G1
033F  G1= ¬(X2X3 +X1X3 +X1X2)    F=  ¬G1
0356  G1= ¬(X2X3 +X1X4)    F= ¬(X1X2X3X4)  ¬G1
0357  G1= ¬(X2X3 +X1X4)    F=  ¬G1
0358  G1= ¬(X2X3 +X1X4 +X1X2)    F= ¬(X1X2X4 +X1X2X3)  ¬G1
0359  G1= ¬(X3X4 +X2X4 +X1X3 +X2X3 +X1X4 +X1X2)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)  ¬G1
035A  G1= ¬(X2X3 +X1X4 +X1X2)    F= ¬(X1X2X4)  ¬G1
035B  G1= ¬(X3 +X2X4 +X1X4 +X1X2)   G2= ¬(X2X3 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2X4)  ¬G1
035E  G1= ¬(X2X3 +X1X4 +X1X2)    F= ¬(X1X2X3X4)  ¬G1
035F  G1= ¬(X2X3 +X1X4 +X1X2)    F=  ¬G1
0363  G1= ¬(X2X3 +X1X4 +X1X3 +X1X2)    F= ¬(X1X3X4 +X1X2X4 +X1X2X3)  ¬G1
0369  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)  ¬G1
036A  G1= ¬(X2X3 +X1X4 +X1X3 +X1X2)    F= ¬(X1X3X4 +X1X2X4)  ¬G1
036B  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   G2= ¬(X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)  ¬G1
036C  G1= ¬(X2X3 +X1X4 +X1X3 +X1X2)    F= ¬(X1X3X4 +X1X2X3)  ¬G1
036D  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   G2= ¬(X2X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)  ¬G1
036E  G1= ¬(X2X3 +X1X4 +X1X3 +X1X2)    F= ¬(X1X3X4)  ¬G1
036F  G1= ¬(X3X4 +X2 +X1X4 +X1X3)   G2= ¬(X2X3 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2)  ¬G1
037C  G1= ¬(X2X3 +X1X4 +X1X3 +X1X2)    F= ¬(X1X2X3)  ¬G1
037D  G1= ¬(X4 +X2X3 +X1X3 +X1X2)   G2= ¬(X2X3X4 +X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1
037E  G1= ¬(X2X3 +X1X4 +X1X3 +X1X2)    F= ¬(X1X2X3X4)  ¬G1
037F  G1= ¬(X2X3 +X1X4 +X1X3 +X1X2)    F=  ¬G1
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0380  G1= ¬(X2X3 +X1)    F= ¬(X1X4 +X1X3 +X1X2)  ¬G1
0381  G1= ¬(X4 +X2X3 +X1)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X3 +X1X2)  ¬G1
0382  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X4 +X2X3)  ¬G1   F= ¬(X1X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
0383  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
0384  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X3 +X2X3 +X1X2X4)  ¬G1   F= ¬(X1X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
0385  G1= ¬(X4 +X2X3 +X1)   G2= ¬(X2X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X3 +X1X2)  ¬G1
0386  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X3X4 +X2X3 +X1X2X4)  ¬G1   F= ¬(X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
0387  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
0388  G1= ¬(X2X3 +X1)    F= ¬(X1X4 +X1X3)  ¬G1
0389  G1= ¬(X4 +X2X3 +X1)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X3)  ¬G1
038A  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X4 +X2X3 +X1X2)  ¬G1   F= ¬(X1X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
038B  G1= ¬(X4 +X3 +X1)   G2= ¬(X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1
038C  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X3 +X2X3 +X1X2)  ¬G1   F= ¬(X1X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
038D  G1= ¬(X4 +X2X3 +X1)   G2= ¬(X2X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X3)  ¬G1
038E  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X3X4 +X2X3 +X1X2)  ¬G1   F= ¬(X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
038F  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
0394  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3X4 +X1X2X4)  ¬G1   F= ¬(X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
0395  G1= ¬(X4 +X2X3 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X3 +X1X2)  ¬G1
0396  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3X4 +X1X2X4)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
0397  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
0398  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3X4 +X1X2)  ¬G1   F= ¬(X1X2X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
0399  G1= ¬(X4 +X2X3 +X1)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X3)  ¬G1
039A  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3X4 +X1X2)  ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
039B  G1= ¬(X4 +X3 +X1)   G2= ¬(X2X3 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1
039C  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3X4 +X1X2)  ¬G1   F= ¬(X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
039D  G1= ¬(X4 +X2X3 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X3)  ¬G1
039E  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3X4 +X1X2)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
039F  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3X4 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
03A8  G1= ¬(X2X3 +X1)    F= ¬(X1X4 +X1X2X3)  ¬G1
03A9  G1= ¬(X4 +X2X3 +X1)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1
03AA  G1= ¬(X2X3 +X1)    F= ¬(X1X4)  ¬G1
03AB  G1= ¬(X4 +X2X3 +X1)   G2= ¬(X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
03AC  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3 +X1X2)  ¬G1   F= ¬(X1X3X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
03AD  G1= ¬(X4 +X2X3 +X1)   G2= ¬(X2X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1
03AE  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3 +X1X2)  ¬G1   F= ¬(X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
03AF  G1= ¬(X4 +X2 +X1)   G2= ¬(X2X3 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2)  ¬G1
03BC  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3 +X1X2)  ¬G1   F= ¬(X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
03BD  G1= ¬(X4 +X2X3 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1
03BE  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3 +X1X2)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
03BF  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
03C0  G1= ¬(X2X3 +X1)    F= ¬(X1X3 +X1X2)  ¬G1
03C1  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
03C2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4)  ¬G1   F= ¬(X1X3X4 +X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
03C3  G1= ¬(X3 +X2 +X1)   G2= ¬(X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1
03C4  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X3 +X2X3 +X1X4)  ¬G1   F= ¬(X1X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
03C5  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X2X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
03C6  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4)  ¬G1   F= ¬(X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
03C7  G1= ¬(X3 +X2 +X1)   G2= ¬(X2X3 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1
03C8  G1= ¬(X2X3 +X1)    F= ¬(X1X3 +X1X2X4)  ¬G1
03C9  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)  ¬G1
03CA  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4 +X1X2)  ¬G1   F= ¬(X1X3X4 +X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
03CB  G1= ¬(X3 +X2X4 +X1)   G2= ¬(X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2X4)  ¬G1
03CD  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X2X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)  ¬G1
03CE  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4 +X1X2)  ¬G1   F= ¬(X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
03D4  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4)  ¬G1   F= ¬(X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
03D5  G1= ¬(X4 +X2X3 +X1)   G2= ¬(X2X3X4 +X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X3 +X1X2)  ¬G1
03D6  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
03D7  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
03D8  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4 +X1X2)  ¬G1   F= ¬(X1X2X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
03D9  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)  ¬G1
03DA  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4 +X1X2)  ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
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03DB   G1= ¬(X3 +X2X4 +X1)    G2= ¬(X2X3 +X1X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X2X4)  ¬G1
03DC   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3 +X1X4 +X1X2)   ¬G1    F= ¬(X1X2X3)   ¬G1 ¬G2+ ¬(X4 +X3 +X2)   ¬G1
03DD   G1= ¬(X4 +X2X3 +X1)    G2= ¬(X2X3X4 +X1X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X3)   ¬G1
03DE   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3 +X1X4 +X1X2)   ¬G1    F= ¬(X1X2X3X4)   ¬G1 ¬G2+ ¬(X4 +X3 +X2)   ¬G1
03DF   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3 +X1X4 +X1X2)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X3 +X2)   ¬G1
03E8   G1= ¬(X2X3 +X1)     F= ¬(X1X3X4 +X1X2X4 +X1X2X3)   ¬G1
03E9   G1= ¬(X3X4 +X2X4 +X2X3 +X1)    G2= ¬(X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)   ¬G1
03EA   G1= ¬(X2X3 +X1)     F= ¬(X1X3X4 +X1X2X4)   ¬G1
03EB   G1= ¬(X3X4 +X2X4 +X2X3 +X1)    G2= ¬(X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)   ¬G1
03EC   G1= ¬(X2X3 +X1)     F= ¬(X1X3X4 +X1X2X3)   ¬G1
03ED   G1= ¬(X3X4 +X2X4 +X2X3 +X1)    G2= ¬(X2X3X4 +X1X2X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)   ¬G1
03EE   G1= ¬(X2X3 +X1)     F= ¬(X1X3X4)   ¬G1
03EF   G1= ¬(X3X4 +X2 +X1)    G2= ¬(X2X3 +X1X2)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2)   ¬G1
03F0   G1= ¬(X4 +X2X3 +X1)    G2= ¬(X2X3X4 +X1X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)   ¬G1
03FE   G1= ¬(X2X3 +X1)     F= ¬(X1X2X3X4)   ¬G1
0660   G1= ¬(X3X4 +X1X2 +X2X4 +X2X3 +X1X4 +X1X3)     F= ¬(X3X4 +X1X2)   ¬G1
0661   G1= ¬(X3X4 +X1X2 +X2X4 +X2X3 +X1X4 +X1X3)    G2= ¬(X1X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)   ¬G1
0662   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)     F= ¬(X3X4 +X1X2X4)   ¬G1
0663   G1= ¬(X3X4 +X1X2 +X2X4 +X2X3 +X1X4 +X1X3)    G2= ¬(X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)   ¬G1
0666   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)     F= ¬(X3X4)   ¬G1
0667   G1= ¬(X3X4 +X1X2 +X2X4 +X2X3 +X1X4 +X1X3)    G2= ¬(X1X2X4 +X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)   ¬G1
0668   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X3X4 +X1X2X4 +X1X2X3)   ¬G1
0669   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    G2= ¬(X1X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2X4 +X1X2X3)   ¬G1
066A   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X3X4 +X1X2X4)   ¬G1
066B   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    G2= ¬(X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2X4 +X1X2X3)   ¬G1
066E   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X3X4)   ¬G1
066F   G1= ¬(X3X4 +X1X2 +X2X4 +X2X3 +X1X4 +X1X3)    G2= ¬(X1X2)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)   ¬G1
0672   G1= ¬(X2X4 +X2X3 +X1X4 +X1X3)     F= ¬(X2X3X4 +X1X2X4)   ¬G1
0673   G1= ¬(X3X4 +X1X3 +X1X2 +X2X4 +X2X3 +X1X4)    G2= ¬(X1X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X3 +X1X2)   ¬G1
0676   G1= ¬(X2X4 +X2X3 +X1X4 +X1X3)     F= ¬(X2X3X4)   ¬G1
0677   G1= ¬(X3X4 +X1 +X2X4 +X2X3)    G2= ¬(X1X4 +X1X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1)   ¬G1
0678   G1= ¬(X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X2X3X4 +X1X2X4 +X1X2X3)   ¬G1
0679   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    G2= ¬(X1X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2X4 +X1X2X3)   ¬G1
067A   G1= ¬(X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X2X3X4 +X1X2X4)   ¬G1
067B   G1= ¬(X3X4 +X1X3 +X2X4 +X2X3 +X1X4 +X1X2)    G2= ¬(X1X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X3 +X1X2X4)   ¬G1
067E   G1= ¬(X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X2X3X4)   ¬G1
067F   G1= ¬(X3X4 +X1 +X2X4 +X2X3)    G2= ¬(X1X4 +X1X3 +X1X2)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1)   ¬G1
0680   G1= ¬(X3X4 +X2X4 +X2X3 +X1)     F= ¬(X3X4 +X1X4 +X1X3 +X1X2)   ¬G1
0681   G1= ¬(X3X4 +X2X4 +X2X3 +X1)    G2= ¬(X1X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X3 +X1X2)   ¬G1
0682   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X1X4 +X2X4 +X2X3)   ¬G1    F= ¬(X3X4 +X1X4)   ¬G1 ¬G2+ ¬(X4 +X3 +X2)   ¬G1
0683   G1= ¬(X3X4 +X2X4 +X2X3 +X1)    G2= ¬(X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X3 +X1X2)   ¬G1
0686   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X4 +X2X3)   ¬G1    F= ¬(X3X4)   ¬G1 ¬G2+ ¬(X4 +X3 +X2)   ¬G1
0687   G1= ¬(X3X4 +X2X4 +X2X3 +X1)    G2= ¬(X1X2X4 +X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X3 +X1X2)   ¬G1
0688   G1= ¬(X3X4 +X2X4 +X2X3 +X1)     F= ¬(X3X4 +X1X4 +X1X3)   ¬G1
0689   G1= ¬(X3X4 +X2X4 +X2X3 +X1)    G2= ¬(X1X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X3)   ¬G1
068A   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X1X4 +X2X4 +X2X3 +X1X2)   ¬G1    F= ¬(X3X4 +X1X4)   ¬G1 ¬G2
           + ¬(X4 +X3 +X2)   ¬G1
068B   G1= ¬(X3X4 +X2X4 +X2X3 +X1)    G2= ¬(X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X3)   ¬G1
068E   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X4 +X2X3 +X1X2)   ¬G1    F= ¬(X3X4)   ¬G1 ¬G2+ ¬(X4 +X3 +X2)   ¬G1
068F   G1= ¬(X3X4 +X2X4 +X2X3 +X1)    G2= ¬(X1X2)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X3 +X1X2)   ¬G1
0690   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X2 +X2X4 +X2X3 +X1X3X4)   ¬G1    F= ¬(X2X3X4 +X1X2)   ¬G1 ¬G2
           + ¬(X4 +X3 +X2)   ¬G1
0691   G1= ¬(X3X4 +X2X4 +X2X3 +X1)    G2= ¬(X1X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X3 +X1X2)   ¬G1
0692   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X4 +X2X3 +X1X3X4)   ¬G1    F= ¬(X2X3X4 +X1X2X4)   ¬G1 ¬G2+ ¬(X4 +X3 +X2)   ¬G1
0693   G1= ¬(X3X4 +X2X4 +X2X3 +X1)    G2= ¬(X1X3X4 +X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X3 +X1X2)   ¬G1
0696   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X4 +X2X3 +X1X3X4)   ¬G1    F= ¬(X2X3X4)   ¬G1 ¬G2+ ¬(X4 +X3 +X2)   ¬G1
0697   G1= ¬(X3X4 +X2X4 +X2X3 +X1)    G2= ¬(X1X3X4 +X1X2X4 +X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X3 +X1X2)   ¬G1
0698   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X4 +X2X3 +X1X3X4 +X1X2)   ¬G1    F= ¬(X2X3X4 +X1X2X4 +X1X2X3)   ¬G1 ¬G2
           + ¬(X4 +X3 +X2)   ¬G1
0699   G1= ¬(X3X4 +X2X4 +X2X3 +X1)    G2= ¬(X1X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X3)   ¬G1
069A   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X4 +X2X3 +X1X3X4 +X1X2)   ¬G1    F= ¬(X2X3X4 +X1X2X4)   ¬G1 ¬G2
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        + ¬(X4 +X3 +X2)  ¬G1
069B  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X3)  ¬G1
069E  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X3X4 +X1X2)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
069F  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X3X4 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X3 +X1X2)  ¬G1
06A0  G1= ¬(X3X4 +X2X4 +X2X3 +X1)    F= ¬(X3X4 +X1X4 +X1X2)  ¬G1
06A1  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X2)  ¬G1
06A2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X1X4 +X2X4 +X2X3 +X1X3)  ¬G1   F= ¬(X3X4 +X1X4)  ¬G1 ¬G2
        + ¬(X4 +X3 +X2)  ¬G1
06A3  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X2)  ¬G1
06A4  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X2X3 +X1X3)  ¬G1   F= ¬(X3X4 +X1X2X3)  ¬G1 ¬G2
        + ¬(X4 +X3 +X2)  ¬G1
06A5  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X2)  ¬G1
06A6  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X2X3 +X1X3)  ¬G1   F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
06A7  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X2)  ¬G1
06A8  G1= ¬(X3X4 +X2X4 +X2X3 +X1)    F= ¬(X3X4 +X1X4 +X1X2X3)  ¬G1
06A9  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X2X3)  ¬G1
06AA  G1= ¬(X3X4 +X2X4 +X2X3 +X1)    F= ¬(X3X4 +X1X4)  ¬G1
06AB  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X2X3)  ¬G1
06AC  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X2X3 +X1X3 +X1X2)  ¬G1   F= ¬(X3X4 +X1X2X3)  ¬G1 ¬G2
        + ¬(X4 +X3 +X2)  ¬G1
06AD  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X2X3)  ¬G1
06AE  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X2X3 +X1X3 +X1X2)  ¬G1   F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
06AF  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X2)  ¬G1
06B0  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2 +X2X4 +X2X3 +X1X3)  ¬G1   F= ¬(X2X3X4 +X1X2)  ¬G1 ¬G2
        + ¬(X4 +X3 +X2)  ¬G1
06B1  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X2)  ¬G1
06B2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X3)  ¬G1   F= ¬(X2X3X4 +X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
06B3  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X3 +X1X2)  ¬G1
06B4  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X3)  ¬G1   F= ¬(X2X3X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
06B5  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X2)  ¬G1
06B6  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X3)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
06B7  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X3 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X3 +X1X2)  ¬G1
06B8  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X3 +X1X2)  ¬G1   F= ¬(X2X3X4 +X1X2X4 +X1X2X3)  ¬G1 ¬G2
        + ¬(X4 +X3 +X2)  ¬G1
06B9  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X2X3)  ¬G1
06BA  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X3 +X1X2)  ¬G1   F= ¬(X2X3X4 +X1X2X4)  ¬G1 ¬G2
        + ¬(X4 +X3 +X2)  ¬G1
06BB  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X3)  ¬G1
06BC  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X3 +X1X2)  ¬G1   F= ¬(X2X3X4 +X1X2X3)  ¬G1 ¬G2
        + ¬(X4 +X3 +X2)  ¬G1
06BD  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X2X3)  ¬G1
06BE  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X3 +X1X2)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
06BF  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X3 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X3 +X1X2)  ¬G1
06E0  G1= ¬(X3X4 +X2X4 +X2X3 +X1)    F= ¬(X3X4 +X1X2)  ¬G1
06E1  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)  ¬G1
06E2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X3X4 +X1X2X4)  ¬G1 ¬G2
        + ¬(X4 +X3 +X2)  ¬G1
06E3  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)  ¬G1
06E6  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
06E7  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)  ¬G1
06E8  G1= ¬(X3X4 +X2X4 +X2X3 +X1)    F= ¬(X3X4 +X1X2X4 +X1X2X3)  ¬G1
06E9  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2X4 +X1X2X3)  ¬G1
06EA  G1= ¬(X3X4 +X2X4 +X2X3 +X1)    F= ¬(X3X4 +X1X2X4)  ¬G1
06EB  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2X4 +X1X2X3)  ¬G1
06EE  G1= ¬(X3X4 +X2X4 +X2X3 +X1)    F= ¬(X3X4)  ¬G1
06EF  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)  ¬G1
06F0  G1= ¬(X2X4 +X2X3 +X1)    F= ¬(X2X3X4 +X1X2)  ¬G1
06F1  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)  ¬G1
06F2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X2X3X4 +X1X2X4)  ¬G1 ¬G2
        + ¬(X4 +X3 +X2)  ¬G1
06F3  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X3 +X1X2)  ¬G1
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06F6  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
06F7  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X4 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X3 +X1X2)  ¬G1
06F8  G1= ¬(X2X4 +X2X3 +X1)   F= ¬(X2X3X4 +X1X2X4 +X1X2X3)  ¬G1
06F9  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2X4 +X1X2X3)  ¬G1
06FA  G1= ¬(X2X4 +X2X3 +X1)   F= ¬(X2X3X4 +X1X2X4)  ¬G1
06FB  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X3 +X1X2X4)  ¬G1
06FE  G1= ¬(X2X4 +X2X3 +X1)   F= ¬(X2X3X4)  ¬G1
06FF  G1= ¬(X3X4 +X1 +X2X4 +X2X3)   G2= ¬(X1)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1)  ¬G1
0775  G1= ¬(X2X4 +X2X3 +X1X4 +X1X3)   F= ¬(X1X2X3X4)  ¬G1
0777  G1= ¬(X2X4 +X2X3 +X1X4 +X1X3)   F=  ¬G1
0778  G1= ¬(X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   F= ¬(X1X2X4 +X1X2X3)  ¬G1
0779  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2X4 +X1X2X3)  ¬G1
077A  G1= ¬(X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   F= ¬(X1X2X4)  ¬G1
077B  G1= ¬(X3 +X2X4 +X1X4 +X1X2)   G2= ¬(X2X3 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2X4)  ¬G1
077E  G1= ¬(X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   F= ¬(X1X2X3X4)  ¬G1
077F  G1= ¬(X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   F=  ¬G1
0780  G1= ¬(X2X4 +X2X3 +X1)   F= ¬(X1X4 +X1X3 +X1X2)  ¬G1
0781  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X3 +X1X2)  ¬G1
0782  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X4 +X2X4 +X2X3)  ¬G1   F= ¬(X1X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
0783  G1= ¬(X3 +X2X4 +X1)   G2= ¬(X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X4 +X1X2)  ¬G1
0786  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X3X4 +X2X4 +X2X3)  ¬G1   F= ¬(X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
0787  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
0788  G1= ¬(X2X4 +X2X3 +X1)   F= ¬(X1X4 +X1X3)  ¬G1
0789  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X3)  ¬G1
078A  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X4 +X2X4 +X2X3 +X1X2)  ¬G1   F= ¬(X1X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
078B  G1= ¬(X3 +X2X4 +X1)   G2= ¬(X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X4)  ¬G1
078E  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X3X4 +X2X4 +X2X3 +X1X2)  ¬G1   F= ¬(X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
078F  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
0790  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2 +X2X4 +X2X3 +X1X3X4)  ¬G1   F= ¬(X1X2)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
0791  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X3 +X1X2)  ¬G1
0792  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X3X4)  ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
0793  G1= ¬(X3 +X2X4 +X1)   G2= ¬(X2X3 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X4 +X1X2)  ¬G1
0796  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X3X4)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
0797  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
0798  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X3X4 +X1X2)  ¬G1   F= ¬(X1X2X4 +X1X2X3)  ¬G1 ¬G2
        + ¬(X4 +X3 +X2)  ¬G1
0799  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X3)  ¬G1
079A  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X3X4 +X1X2)  ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
079B  G1= ¬(X3 +X2X4 +X1)   G2= ¬(X2X3 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X4)  ¬G1
079E  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X3X4 +X1X2)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
079F  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X3X4 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
07A0  G1= ¬(X2X4 +X2X3 +X1)   F= ¬(X1X4 +X1X2)  ¬G1
07A1  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X2)  ¬G1
07A2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X4 +X2X4 +X2X3 +X1X3)  ¬G1   F= ¬(X1X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
07A3  G1= ¬(X3X4 +X2X3 +X2X4 +X1)   G2= ¬(X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X4 +X1X2)  ¬G1
07A4  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X3)  ¬G1   F= ¬(X1X3X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
07A5  G1= ¬(X4 +X2X3 +X1)   G2= ¬(X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2)  ¬G1
07A6  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X3)  ¬G1   F= ¬(X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
07A7  G1= ¬(X4 +X2 +X1)   G2= ¬(X2X4 +X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2)  ¬G1
07A8  G1= ¬(X2X4 +X2X3 +X1)   F= ¬(X1X4 +X1X2X3)  ¬G1
07A9  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X2X3)  ¬G1
07AA  G1= ¬(X2X4 +X2X3 +X1)   F= ¬(X1X4)  ¬G1
07AB  G1= ¬(X3X4 +X2X3 +X2X4 +X1)   G2= ¬(X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X4)  ¬G1
07AC  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X3 +X1X2)  ¬G1   F= ¬(X1X3X4 +X1X2X3)  ¬G1 ¬G2
        + ¬(X4 +X3 +X2)  ¬G1
07AD  G1= ¬(X4 +X2X3 +X1)   G2= ¬(X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1
07AE  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X3 +X1X2)  ¬G1   F= ¬(X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
07AF  G1= ¬(X4 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2)  ¬G1
07B0  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2 +X2X4 +X2X3 +X1X3)  ¬G1   F= ¬(X1X2)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
07B1  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X2)  ¬G1
07B2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X3)  ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
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07B3   G1= ¬(X3 +X2X4 +X1)   G2= ¬(X2X3 +X1X3)   ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X4 +X1X2)  ¬G1
07B4   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X3)   ¬G1   F= ¬(X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
07B5   G1= ¬(X4 +X2X3 +X1)   G2= ¬(X2X4 +X1X3X4)   ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2)  ¬G1
07B6   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X3)   ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
07B7   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X3)   ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
07B8   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X3 +X1X2)   ¬G1   F= ¬(X1X2X4 +X1X2X3)  ¬G1 ¬G2
        + ¬(X4 +X3 +X2)  ¬G1
07B9   G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X2X3X4 +X1X3X4)   ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X2X3)  ¬G1
07BA   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X3 +X1X2)   ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
07BB   G1= ¬(X3 +X2X4 +X1)   G2= ¬(X2X3 +X1X3)   ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X4)  ¬G1
07BC   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X3 +X1X2)   ¬G1   F= ¬(X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
07BD   G1= ¬(X4 +X2X3 +X1)   G2= ¬(X2X4 +X1X3X4)   ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1
07BE   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X3 +X1X2)   ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
07BF   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X3 +X1X2)   ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
07E0   G1= ¬(X2X4 +X2X3 +X1)   F= ¬(X1X3X4 +X1X2)  ¬G1
07E1   G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X2X3X4)   ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)  ¬G1
07E2   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X4 +X1X3)   ¬G1   F= ¬(X1X3X4 +X1X2X4)  ¬G1 ¬G2
        + ¬(X4 +X3 +X2)  ¬G1
07E3   G1= ¬(X3X4 +X2X3 +X2X4 +X1)   G2= ¬(X2X3)   ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X2)  ¬G1
07E6   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X4 +X1X3)   ¬G1   F= ¬(X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
07E7   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X2X4 +X2X3)   ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2)  ¬G1
07E8   G1= ¬(X2X4 +X2X3 +X1)   F= ¬(X1X3X4 +X1X2X4 +X1X2X3)  ¬G1
07E9   G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X2X3X4)   ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2X4 +X1X2X3)  ¬G1
07EA   G1= ¬(X2X4 +X2X3 +X1)   F= ¬(X1X3X4 +X1X2X4)  ¬G1
07EB   G1= ¬(X3X4 +X2X3 +X2X4 +X1)   G2= ¬(X2X3)   ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X2X4)  ¬G1
07EE   G1= ¬(X2X4 +X2X3 +X1)   F= ¬(X1X3X4)  ¬G1
07EF   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X2)   ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2)  ¬G1
07F0   G1= ¬(X2X4 +X2X3 +X1)   F= ¬(X1X2)  ¬G1
07F1   G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X2X3X4 +X1X3X4)   ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)  ¬G1
07F2   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X4 +X1X3)   ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
07F3   G1= ¬(X3 +X2X4 +X1)   G2= ¬(X2X3 +X1X3)   ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1
07F6   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X4 +X1X3)   ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
07F7   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X4 +X1X3)   ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
07F8   G1= ¬(X2X4 +X2X3 +X1)   F= ¬(X1X2X4 +X1X2X3)  ¬G1
07F9   G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X2X3X4 +X1X3X4)   ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2X4 +X1X2X3)  ¬G1
07FA   G1= ¬(X2X4 +X2X3 +X1)   F= ¬(X1X2X4)  ¬G1
07FB   G1= ¬(X3 +X2X4 +X1)   G2= ¬(X2X3 +X1X3)   ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2X4)  ¬G1
07FE   G1= ¬(X2X4 +X2X3 +X1)   F= ¬(X1X2X3X4)  ¬G1
07FF   G1= ¬(X2X4 +X2X3 +X1)   F=  ¬G1
0880   G1= ¬(X4 +X3 +X2 +X1)   F= ¬(X4 +X3 +X1X2)  ¬G1
0881   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X3X4)   ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0882   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X4 +X1X2X3)   ¬G1   F= ¬(X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0883   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X3)   ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0885   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X1X2X4 +X1X2X3)   ¬G1   F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0887   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X4 +X1X2X3)   ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0888   G1= ¬(X4 +X3 +X2 +X1)   F= ¬(X4 +X3)  ¬G1
0889   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X3X4)   ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1
088A   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X4 +X1X2)   ¬G1   F= ¬(X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
088B   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X3)   ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1
088E   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X1X2)   ¬G1   F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
088F   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2)   ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0890   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2 +X1X3X4)   ¬G1   F= ¬(X2X4 +X2X3 +X1X2)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
0891   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X3X4)   ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0892   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X1X3X4 +X1X2X3)   ¬G1   F= ¬(X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0893   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X3X4 +X1X2X3)   ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0896   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)   ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2
        + ¬(X4 +X3 +X1X2)  ¬G1
0897   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X3X4 +X1X2X4 +X1X2X3)   ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0898   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2 +X1X3X4)   ¬G1   F= ¬(X2X4 +X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
0899   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X3X4)   ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1
089A   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X1X3X4 +X1X2)   ¬G1   F= ¬(X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
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089B   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1
089E   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3X4 +X1X3X4 +X1X2)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
089F   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X3X4 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
08A0   G1= ¬(X4 +X2 +X1)    F= ¬(X4 +X2X3 +X1X2)  ¬G1
08A1   G1= ¬(X4 +X2 +X1)    G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X2)  ¬G1
08A2   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X4 +X1X3)  ¬G1   F= ¬(X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
08A3   G1= ¬(X4 +X2 +X1)    G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X2)  ¬G1
08A4   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X3 +X1X3 +X1X2X4)  ¬G1   F= ¬(X3X4 +X2X3)  ¬G1 ¬G2
        + ¬(X4 +X3 +X1X2)  ¬G1
08A5   G1= ¬(X4 +X2 +X1)    G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X2)  ¬G1
08A6   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X1X3 +X1X2X4)  ¬G1   F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
08A7   G1= ¬(X4 +X2 +X1)    G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X2)  ¬G1
08A8   G1= ¬(X4 +X2 +X1)    F= ¬(X4 +X2X3)  ¬G1
08A9   G1= ¬(X4 +X2 +X1)    G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
08AA   G1= ¬(X4 +X3 +X1 +X2)    G2= ¬(X4 +X1)  ¬G1   F= ¬(X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
08AB   G1= ¬(X4 +X2 +X1)    G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
08AC   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X3 +X1X3 +X1X2)  ¬G1   F= ¬(X3X4 +X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
08AD   G1= ¬(X4 +X2 +X1)    G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
08AE   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X1X3 +X1X2)  ¬G1   F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
08AF   G1= ¬(X4 +X2 +X1)    G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X2)  ¬G1
08B0   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2 +X1X3)  ¬G1   F= ¬(X2X4 +X2X3 +X1X2)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
08B1   G1= ¬(X4 +X2 +X1)    G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X2)  ¬G1
08B2   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X4 +X1X3)  ¬G1   F= ¬(X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
08B3   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
08B4   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3 +X1X3 +X1X2X4)  ¬G1   F= ¬(X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
08B5   G1= ¬(X4 +X2 +X1)    G2= ¬(X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X2)  ¬G1
08B6   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3X4 +X1X3 +X1X2X4)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
08B7   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X3 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
08B8   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2 +X1X3)  ¬G1   F= ¬(X2X4 +X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
08B9   G1= ¬(X4 +X2 +X1)    G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
08BA   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X4 +X1X3 +X1X2)  ¬G1   F= ¬(X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
08BB   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1
08BC   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3 +X1X3 +X1X2)  ¬G1   F= ¬(X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
08BD   G1= ¬(X4 +X2 +X1)    G2= ¬(X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
08BE   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3X4 +X1X3 +X1X2)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
08BF   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X3 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
08E0   G1= ¬(X3X4 +X2 +X1)    F= ¬(X3X4 +X2X4 +X2X3 +X1X2)  ¬G1
08E1   G1= ¬(X3X4 +X2 +X1)    G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X2)  ¬G1
08E2   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X4 +X1X4 +X1X3)  ¬G1   F= ¬(X3X4 +X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
08E3   G1= ¬(X3X4 +X2 +X1)    G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X2)  ¬G1
08E6   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X1X4 +X1X3)  ¬G1   F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
08E7   G1= ¬(X3X4 +X2 +X1)    G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X2)  ¬G1
08E8   G1= ¬(X3X4 +X2 +X1)    F= ¬(X3X4 +X2X4 +X2X3)  ¬G1
08E9   G1= ¬(X3X4 +X2 +X1)    G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)  ¬G1
08EA   G1= ¬(X4 +X3 +X1 +X2)    G2= ¬(X3X4 +X2X4 +X1)  ¬G1   F= ¬(X3X4 +X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
08EB   G1= ¬(X3X4 +X2 +X1)    G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)  ¬G1
08EE   G1= ¬(X4 +X3 +X1 +X2)    G2= ¬(X3X4 +X1)  ¬G1   F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
08EF   G1= ¬(X3X4 +X2 +X1)    G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X2)  ¬G1
08F0   G1= ¬(X2 +X1)    F= ¬(X2X4 +X2X3 +X1X2)  ¬G1
08F1   G1= ¬(X3X4 +X2 +X1)    G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X2)  ¬G1
08F2   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X4 +X1X4 +X1X3)  ¬G1   F= ¬(X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
08F3   G1= ¬(X3 +X2 +X1)    G2= ¬(X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2X4 +X1X2)  ¬G1
08F6   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3X4 +X1X4 +X1X3)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
08F7   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X4 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
08F8   G1= ¬(X2 +X1)    F= ¬(X2X4 +X2X3)  ¬G1
08F9   G1= ¬(X3X4 +X2 +X1)    G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)  ¬G1
08FA   G1= ¬(X4 +X3 +X1 +X2)    G2= ¬(X2X4 +X1)  ¬G1   F= ¬(X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
08FB   G1= ¬(X3 +X2 +X1)    G2= ¬(X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2X4)  ¬G1
08FE   G1= ¬(X4 +X3 +X1 +X2)    G2= ¬(X2X3X4 +X1)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
08FF   G1= ¬(X4 +X3 +X1 +X2)    G2= ¬(X1)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
0900   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X2 +X2X3X4 +X1X3X4)  ¬G1   F= ¬(X1X2)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
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0991   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0992   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X4 +X2X3X4 +X1X3X4 +X1X2X3)  ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2
          + ¬(X4 +X3 +X1X2)  ¬G1
0993   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0996   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2
          + ¬(X4 +X3 +X1X2)  ¬G1
0997   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0998   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2)  ¬G1   F= ¬(X1X2X4 +X1X2X3)  ¬G1 ¬G2
          + ¬(X4 +X3 +X1X2)  ¬G1
0999   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1
099A   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2)  ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
099B   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1
099E   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
099F   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
09A0   G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X2X3X4 +X1)  ¬G1   F= ¬(X1X4 +X1X2)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
09A1   G1= ¬(X4 +X2 +X1)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X2)  ¬G1
09A2   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X4 +X2X3X4 +X1X3)  ¬G1   F= ¬(X1X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
09A3   G1= ¬(X4 +X2 +X1)   G2= ¬(X2X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X2)  ¬G1
09A4   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3 +X1X2X4)  ¬G1   F= ¬(X1X3X4 +X1X2X3)  ¬G1 ¬G2
          + ¬(X4 +X3 +X1X2)  ¬G1
09A5   G1= ¬(X4 +X2 +X1)   G2= ¬(X2X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X2)  ¬G1
09A6   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3 +X1X2X4)  ¬G1   F= ¬(X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
09A7   G1= ¬(X4 +X2 +X1)   G2= ¬(X2X3X4 +X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X2)  ¬G1
09A8   G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X2X3X4 +X1)  ¬G1   F= ¬(X1X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
09A9   G1= ¬(X4 +X2 +X1)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
09AA   G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X2X3X4 +X1)  ¬G1   F= ¬(X1X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
09AB   G1= ¬(X4 +X2 +X1)   G2= ¬(X2X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
09AC   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3 +X1X2)  ¬G1   F= ¬(X1X3X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
09AD   G1= ¬(X4 +X2 +X1)   G2= ¬(X2X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
09AE   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3 +X1X2)  ¬G1   F= ¬(X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
09AF   G1= ¬(X4 +X2 +X1)   G2= ¬(X2X3X4 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X2)  ¬G1
09B0   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2 +X2X3X4 +X1X3)  ¬G1   F= ¬(X1X2)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
09B1   G1= ¬(X4 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X2)  ¬G1
09B2   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X4 +X2X3X4 +X1X3)  ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
09B3   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
09B4   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3 +X1X2X4)  ¬G1   F= ¬(X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
09B5   G1= ¬(X4 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X2)  ¬G1
09B6   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3 +X1X2X4)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
09B7   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
09B8   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3 +X1X2)  ¬G1   F= ¬(X1X2X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
09B9   G1= ¬(X4 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
09BA   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3 +X1X2)  ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
09BB   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1
09BC   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3 +X1X2)  ¬G1   F= ¬(X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
09BD   G1= ¬(X4 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
09BE   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3 +X1X2)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
09BF   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
09E0   G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X2X3X4 +X1)  ¬G1   F= ¬(X1X3X4 +X1X2)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
09E1   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X2)  ¬G1
09E2   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X4 +X1X3)  ¬G1   F= ¬(X1X3X4 +X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
09E3   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X2X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X2)  ¬G1
09E6   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X4 +X1X3)  ¬G1   F= ¬(X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
09E7   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X2X3X4 +X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X2)  ¬G1
09E8   G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X2X3X4 +X1)  ¬G1   F= ¬(X1X3X4 +X1X2X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
09E9   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)  ¬G1
09EA   G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X2X3X4 +X1)  ¬G1   F= ¬(X1X3X4 +X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
09EB   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X2X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)  ¬G1
09EE   G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X2X3X4 +X1)  ¬G1   F= ¬(X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
09EF   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X2X3X4 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X2)  ¬G1
09F0   G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X2X3X4 +X1)  ¬G1   F= ¬(X1X2)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
[illegible]   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X2)  ¬G1
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09F2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X4 +X1X3)   ¬G1   F= ¬(X1X2X4)   ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)   ¬G1
09F3  G1= ¬(X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3)   ¬G1   F=   ¬G1 ¬G2+ ¬(X3 +X2X4 +X1X2)   ¬G1
09F5  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X4 +X1X3)   ¬G1   F= ¬(X1X2X3X4)   ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)   ¬G1
09F7  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X4 +X1X3)   ¬G1   F=   ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)   ¬G1
09F8  G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X2X3X4 +X1)   ¬G1   F= ¬(X1X2X4 +X1X2X3)   ¬G1 ¬G2+ ¬(X4 +X3 +X1)   ¬G1
09F9  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4)   ¬G1   F=   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)   ¬G1
09FA  G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X2X3X4 +X1)   ¬G1   F= ¬(X1X2X4)   ¬G1 ¬G2+ ¬(X4 +X3 +X1)   ¬G1
09FB  G1= ¬(X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3)   ¬G1   F=   ¬G1 ¬G2+ ¬(X3 +X2X4)   ¬G1
09FE  G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X2X3X4 +X1)   ¬G1   F= ¬(X1X2X3X4)   ¬G1 ¬G2+ ¬(X4 +X3 +X1)   ¬G1
09FF  G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X2X3X4 +X1)   ¬G1   F=   ¬G1 ¬G2+ ¬(X4 +X3 +X1)   ¬G1
0AA1  G1= ¬(X4 +X2 +X1)   G2= ¬(X1X2X3X4)   ¬G1   F=   ¬G1 ¬G2+ ¬(X4 +X1X2)   ¬G1
0AA2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X4 +X2X3 +X1X3)   ¬G1   F= ¬(X4)   ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)   ¬G1
0AA3  G1= ¬(X4 +X2 +X1)   G2= ¬(X1X2X3)   ¬G1   F=   ¬G1 ¬G2+ ¬(X4 +X1X2)   ¬G1
0AA4  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X3 +X1X2X4)   ¬G1   F= ¬(X3X4 +X1X2X3)   ¬G1 ¬G2
      + ¬(X4 +X3 +X1X2)   ¬G1
0AA6  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X3 +X1X2X4)   ¬G1   F= ¬(X3X4)   ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)   ¬G1
0AA7  G1= ¬(X4 +X2 +X1)   G2= ¬(X1X2X4 +X1X2X3)   ¬G1   F=   ¬G1 ¬G2+ ¬(X4 +X1X2)   ¬G1
0AA8  G1= ¬(X4 +X2 +X1)   F= ¬(X4 +X1X2X3)   ¬G1
0AA9  G1= ¬(X4 +X2 +X1)   G2= ¬(X1X2X3X4)   ¬G1   F=   ¬G1 ¬G2+ ¬(X4 +X1X2X3)   ¬G1
0AAB  G1= ¬(X4 +X2 +X1)   G2= ¬(X1X2X3)   ¬G1   F=   ¬G1 ¬G2+ ¬(X4 +X1X2X3)   ¬G1
0AAC  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X3 +X1X2)   ¬G1   F= ¬(X3X4 +X1X2X3)   ¬G1 ¬G2
      + ¬(X4 +X3 +X1X2)   ¬G1
0AAD  G1= ¬(X4 +X2 +X1)   G2= ¬(X1X2X4)   ¬G1   F=   ¬G1 ¬G2+ ¬(X4 +X1X2X3)   ¬G1
0AAE  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X3 +X1X2)   ¬G1   F= ¬(X3X4)   ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)   ¬G1
0AB0  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2 +X1X3)   ¬G1   F= ¬(X2X4 +X1X2)   ¬G1 ¬G2+ ¬(X4 +X3 +X2)   ¬G1
0AB1  G1= ¬(X4 +X2 +X1)   G2= ¬(X1X3X4)   ¬G1   F=   ¬G1 ¬G2+ ¬(X4 +X1X2)   ¬G1
0AB2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X3)   ¬G1   F= ¬(X2X4)   ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)   ¬G1
0AB3  G1= ¬(X4 +X2 +X1)   G2= ¬(X1X3)   ¬G1   F=   ¬G1 ¬G2+ ¬(X4 +X1X3 +X1X2)   ¬G1
0AB4  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3 +X1X2X4)   ¬G1   F= ¬(X2X3X4 +X1X2X3)   ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)   ¬G1
0AB5  G1= ¬(X4 +X2 +X1)   G2= ¬(X1X3X4 +X1X2X4)   ¬G1   F=   ¬G1 ¬G2+ ¬(X4 +X1X2)   ¬G1
0AB6  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3 +X1X2X4)   ¬G1   F= ¬(X2X3X4)   ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)   ¬G1
0AB7  G1= ¬(X4 +X2 +X1)   G2= ¬(X1X3 +X1X2X4)   ¬G1   F=   ¬G1 ¬G2+ ¬(X4 +X1X3 +X1X2)   ¬G1
0AB8  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2 +X1X3)   ¬G1   F= ¬(X2X4 +X1X2X3)   ¬G1 ¬G2+ ¬(X4 +X3 +X2)   ¬G1
0AB9  G1= ¬(X4 +X2 +X1)   G2= ¬(X1X3X4)   ¬G1   F=   ¬G1 ¬G2+ ¬(X4 +X1X2X3)   ¬G1
0ABA  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2 +X1X3)   ¬G1   F= ¬(X2X4)   ¬G1 ¬G2+ ¬(X4 +X3 +X2)   ¬G1
0ABB  G1= ¬(X4 +X2 +X1)   G2= ¬(X1X3)   ¬G1   F=   ¬G1 ¬G2+ ¬(X4 +X1X3)   ¬G1
0ABC  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3 +X1X2)   ¬G1   F= ¬(X2X3X4 +X1X2X3)   ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)   ¬G1
0ABD  G1= ¬(X4 +X2 +X1)   G2= ¬(X1X3X4 +X1X2X4)   ¬G1   F=   ¬G1 ¬G2+ ¬(X4 +X1X2X3)   ¬G1
0ABE  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3 +X1X2)   ¬G1   F= ¬(X2X3X4)   ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)   ¬G1
0ABF  G1= ¬(X4 +X2 +X1)   G2= ¬(X1X3 +X1X2)   ¬G1   F=   ¬G1 ¬G2+ ¬(X4 +X1X3 +X1X2)   ¬G1
0AC0  G1= ¬(X3X4 +X2 +X1)   F= ¬(X3X4 +X2X4 +X1X3 +X1X2)   ¬G1
0AC1  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3X4)   ¬G1   F=   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)   ¬G1
0AC2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X2X3 +X1X4)   ¬G1   F= ¬(X3X4 +X2X4)   ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)   ¬G1
0AC3  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3)   ¬G1   F=   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)   ¬G1
0AC6  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X4)   ¬G1   F= ¬(X3X4)   ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)   ¬G1
0AC7  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X4 +X1X2X3)   ¬G1   F=   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)   ¬G1
0AC8  G1= ¬(X3X4 +X2 +X1)   F= ¬(X3X4 +X2X4 +X1X3)   ¬G1
0AC9  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3X4)   ¬G1   F=   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)   ¬G1
0ACA  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2 +X1X4)   ¬G1   F= ¬(X3X4 +X2X4)   ¬G1 ¬G2+ ¬(X4 +X3 +X2)   ¬G1
0ACB  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3)   ¬G1   F=   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)   ¬G1
0ACE  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X4 +X1X2)   ¬G1   F= ¬(X3X4)   ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)   ¬G1
0ACF  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2)   ¬G1   F=   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)   ¬G1
0AD0  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2 +X1X4)   ¬G1   F= ¬(X2X4 +X1X2)   ¬G1 ¬G2+ ¬(X4 +X3 +X2)   ¬G1
0AD1  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3X4)   ¬G1   F=   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)   ¬G1
0AD2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X4)   ¬G1   F= ¬(X2X4)   ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)   ¬G1
0AD3  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3X4 +X1X2X3)   ¬G1   F=   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)   ¬G1
0AD4  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4)   ¬G1   F= ¬(X2X3X4 +X1X2X3)   ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)   ¬G1
0AD5  G1= ¬(X4 +X2 +X1)   G2= ¬(X1X4)   ¬G1   F=   ¬G1 ¬G2+ ¬(X4 +X1X3 +X1X2)   ¬G1
0AD6  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4)   ¬G1   F= ¬(X2X3X4)   ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)   ¬G1
0AD7  G1= ¬(X4 +X2 +X1)   G2= ¬(X1X4 +X1X2X3)   ¬G1   F=   ¬G1 ¬G2+ ¬(X4 +X1X3 +X1X2)   ¬G1
0AD8  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2 +X1X4)   ¬G1   F= ¬(X2X4 +X1X2X3)   ¬G1 ¬G2+ ¬(X4 +X3 +X2)   ¬G1
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0AD9   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)  ¬G1
0ADA   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2 +X1X4)  ¬G1   F= ¬(X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
0ADB   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)  ¬G1
0ADC   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4 +X1X2)  ¬G1   F= ¬(X2X3X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0ADD   G1= ¬(X4 +X2 +X1)   G2= ¬(X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X3)  ¬G1
0ADE   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4 +X1X2)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0ADF   G1= ¬(X4 +X2 +X1)   G2= ¬(X1X4 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X3 +X1X2)  ¬G1
0AE0   G1= ¬(X3X4 +X2 +X1)   F= ¬(X3X4 +X2X4 +X1X2)  ¬G1
0AE1   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2)  ¬G1
0AE2   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X3X4 +X2X4)  ¬G1 ¬G2
          + ¬(X4 +X3 +X1X2)  ¬G1
0AE3   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2)  ¬G1
0AE4   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X3X4 +X1X2X3)  ¬G1 ¬G2
          + ¬(X4 +X3 +X1X2)  ¬G1
0AE5   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2)  ¬G1
0AE6   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0AE7   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2)  ¬G1
0AE8   G1= ¬(X3X4 +X2 +X1)   F= ¬(X3X4 +X2X4 +X1X2X3)  ¬G1
0AE9   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)  ¬G1
0AEA   G1= ¬(X3X4 +X2 +X1)   F= ¬(X3X4 +X2X4)  ¬G1
0AEB   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)  ¬G1
0AEC   G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X3X4 +X2X3 +X1)  ¬G1   F= ¬(X3X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
0AED   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)  ¬G1
0AEE   G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X3X4 +X2X3 +X1)  ¬G1   F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
0AEF   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2)  ¬G1
0AF1   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2)  ¬G1
0AF2   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0AF3   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
0AF4   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X2X3X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0AF5   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0AF7   G1= ¬(X4 +X2 +X1)   G2= ¬(X1X4 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X3 +X1X2)  ¬G1
0AF8   G1= ¬(X2 +X1)   F= ¬(X2X4 +X1X2X3)  ¬G1
0AF9   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)  ¬G1
0AFB   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)  ¬G1
0AFC   G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X2X3 +X1)  ¬G1   F= ¬(X2X3X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
0AFD   G1= ¬(X4 +X2 +X1)   G2= ¬(X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1
0AFE   G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X2X3 +X1)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
0BB0   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2 +X2X3 +X1X3)  ¬G1   F= ¬(X1X2)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0BB1   G1= ¬(X4 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2)  ¬G1
0BB2   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X4 +X2X3 +X1X3)  ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0BB3   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0BB4   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3 +X1X2X4)  ¬G1   F= ¬(X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0BB5   G1= ¬(X4 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2)  ¬G1
0BB6   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3 +X1X2X4)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0BB7   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0BB8   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3 +X1X2)  ¬G1   F= ¬(X1X2X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0BB9   G1= ¬(X4 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1
0BBA   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3 +X1X2)  ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0BBB   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1
0BBC   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3 +X1X2)  ¬G1   F= ¬(X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0BBD   G1= ¬(X4 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1
0BBE   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3 +X1X2)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0BBF   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0BD0   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2 +X2X3 +X1X4)  ¬G1   F= ¬(X1X2)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0BD1   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
0BD2   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4)  ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0BD3   G1= ¬(X3 +X2 +X1)   G2= ¬(X2X3 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2X4 +X1X2)  ¬G1
0BD6   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0BD7   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0BD8   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4 +X1X2)  ¬G1   F= ¬(X1X2X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0BD9   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)  ¬G1
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0BDA  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4 +X1X2)  ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0BDB  G1= ¬(X3 +X2 +X1)   G2= ¬(X2X3 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2X4)  ¬G1
0BDE  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4 +X1X2)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0BDF  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0BE0  G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X2X3 +X1)  ¬G1   F= ¬(X1X3X4 +X1X2)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
0BE1  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2)  ¬G1
0BE2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X1X3X4 +X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0BE3  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X2)  ¬G1
0BE4  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X1X3X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0BE5  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X2X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2)  ¬G1
0BE6  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0BE7  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X2X3 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X2)  ¬G1
0BE8  G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X2X3 +X1)  ¬G1   F= ¬(X1X3X4 +X1X2X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
0BE9  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)  ¬G1
0BEA  G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X2X3 +X1)  ¬G1   F= ¬(X1X3X4 +X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
0BEB  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)  ¬G1
0BEC  G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X2X3 +X1)  ¬G1   F= ¬(X1X3X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
0BED  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X2X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)  ¬G1
0BEE  G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X2X3 +X1)  ¬G1   F= ¬(X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
0BEF  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X2X3 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X2)  ¬G1
0BF0  G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X2X3 +X1)  ¬G1   F= ¬(X1X2)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
0BF1  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2)  ¬G1
0BF2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0BF3  G1= ¬(X3 +X2 +X1)   G2= ¬(X2X3 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2X4 +X1X2)  ¬G1
0BF4  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0BF5  G1= ¬(X4 +X2 +X1)   G2= ¬(X2X3X4 +X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2)  ¬G1
0BF6  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0BF7  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0BF8  G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X2X3 +X1)  ¬G1   F= ¬(X1X2X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
0BF9  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)  ¬G1
0BFA  G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X2X3 +X1)  ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
0BFB  G1= ¬(X3 +X2 +X1)   G2= ¬(X2X3 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2X4)  ¬G1
0BFC  G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X2X3 +X1)  ¬G1   F= ¬(X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
0BFD  G1= ¬(X4 +X2 +X1)   G2= ¬(X2X3X4 +X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1
0BFE  G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X2X3 +X1)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
0BFF  G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X2X3 +X1)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
0EE0  G1= ¬(X3X4 +X2 +X1)    F= ¬(X3X4 +X1X2)  ¬G1
0EE1  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)  ¬G1
0EE2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X3X4 +X1X2X4)  ¬G1 ¬G2
         + ¬(X4 +X3 +X1X2)  ¬G1
0EE3  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)  ¬G1
0EE6  G1= ¬(X4 +X3 +X2 +X1)   G2- ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0EE7  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)  ¬G1
0EE8  G1= ¬(X3X4 +X2 +X1)    F= ¬(X3X4 +X1X2X4 +X1X2X3)  ¬G1
0EE9  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2X4 +X1X2X3)  ¬G1
0EEA  G1= ¬(X3X4 +X2 +X1)    F= ¬(X3X4 +X1X2X4)  ¬G1
0EEB  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2X4 +X1X2X3)  ¬G1
0EEE  G1= ¬(X3X4 +X2 +X1)    F= ¬(X3X4)  ¬G1
0EEF  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)  ¬G1
0EF0  G1= ¬(X2 +X1)    F= ¬(X2X3X4 +X1X2)  ¬G1
0EF1  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)  ¬G1
0EF2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X2X3X4 +X1X2X4)  ¬G1 ¬G2
         + ¬(X4 +X3 +X1X2)  ¬G1
0EF3  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X3 +X1X2)  ¬G1
0EF6  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0EF7  G1- ¬(X3X4 +X2 +X1)   G2= ¬(X1X4 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X3 +X1X2)  ¬G1
0EF8  G1= ¬(X2 +X1)    F= ¬(X2X3X4 +X1X2X4 +X1X2X3)  ¬G1
0EF9  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2X4 +X1X2X3)  ¬G1
0EFA  G1= ¬(X2 +X1)    F= ¬(X2X3X4 +X1X2X4)  ¬G1
0EFB  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X3 +X1X2X4)  ¬G1
0EFE  G1= ¬(X2 +X1)    F= ¬(X2X3X4)  ¬G1
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0EFF   G1= ¬(X3X4 +X1 +X2)    G2= ¬(X1)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1)  ¬G1
0F30   G1= ¬(X2 +X1X3)    F= ¬(X1X2)   ¬G1
0F33   G1= ¬(X3 +X1 +X2)    G2= ¬(X2X3 +X1X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1)  ¬G1
0FF0   G1= ¬(X2 +X1)    F= ¬(X1X2)   ¬G1
0FF1   G1= ¬(X3X4 +X2 +X1)    G2= ¬(X2X3X4 +X1X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)  ¬G1
0FF2   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X4 +X2X3 +X1X4 +X1X3)   ¬G1    F= ¬(X1X2X4)   ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1.
0FF3   G1= ¬(X3 +X2 +X1)    G2= ¬(X2X3 +X1X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1
0FF5   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X4 +X2X3 +X1X4 +X1X3)   ¬G1    F= ¬(X1X2X3X4)   ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0FF7   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X4 +X2X3 +X1X4 +X1X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
0FF8   G1= ¬(X2 +X1)    F= ¬(X1X2X4 +X1X2X3)   ¬G1
0FF9   G1= ¬(X3X4 +X2 +X1)    G2= ¬(X2X3X4 +X1X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2X4 +X1X2X3)  ¬G1
0FFB   G1= ¬(X3 +X2 +X1)    G2= ¬(X2X3 +X1X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1X2X4)  ¬G1
0FFF   G1= ¬(X2 +X1)    F= ¬(X1X2X3X4)   ¬G1
1668   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    F= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)   ¬G1
1669   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    G2= ¬(X1X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)  ¬G1
166A   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    F= ¬(X2X3X4 +X1X3X4 +X1X2X4)   ¬G1
166B   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    G2= ¬(X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)  ¬G1
166E   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    F= ¬(X2X3X4 +X1X3X4)   ¬G1
166F   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    G2= ¬(X1X2)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3X4 +X1X2)  ¬G1
156F   G1= ¬(X1X2 +X3X4 +X2X4 +X2X3 +X1X4 +X1X3)    F= ¬(X2X3X4)   ¬G1
167E   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    G2= ¬(X1X4 +X1X3 +X1X2)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1)  ¬G1
167F   G1= ¬(X1 +X3X4 +X2X4 +X2X3)    G2= ¬(X1X4 +X1X3 +X1X2)   ¬G1    F= ¬(X2X3X4 +X1X4 +X1X3 +X1X2)   ¬G1
1680   G1= ¬(X3X4 +X2X4 +X2X3 +X1)    F= ¬(X2X3X4 +X1X4 +X1X3 +X1X2)   ¬G1
1681   G1= ¬(X3X4 +X2X4 +X2X3 +X1)    G2= ¬(X1X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X4 +X1X3 +X1X2)  ¬G1
1682   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X4 +X3X4 +X2X4 +X2X3)   ¬G1    F= ¬(X2X3X4 +X1X4)   ¬G1 ¬G2
         + ¬(X4 +X3 +X2)   ¬G1
1683   G1= ¬(X3X4 +X2X4 +X2X3 +X1)    G2= ¬(X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X4 +X1X3 +X1X2)  ¬G1
1686   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X4 +X2X3)   ¬G1    F= ¬(X2X3X4 +X1X3X4)   ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
1687   G1= ¬(X3X4 +X2X4 +X2X3 +X1)    G2= ¬(X1X2X4 +X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X4 +X1X3 +X1X2)  ¬G1
1688   G1= ¬(X3X4 +X2X4 +X2X3 +X1)    F= ¬(X2X3X4 +X1X4 +X1X3)   ¬G1
1689   G1= ¬(X3X4 +X2X4 +X2X3 +X1)    G2= ¬(X1X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X4 +X1X3)  ¬G1
168A   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X4 +X3X4 +X2X4  X2X3 +X1X2)   ¬G1    F= ¬(X2X3X4 +X1X4)   ¬G1 ¬G2
         + ¬(X4 +X3 +X2)   ¬G1
168B   G1= ¬(X3X4 +X2X4 +X2X3 +X1)    G2= ¬(X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X4 +X1X3)  ¬G1
168E   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X4 +X2X3 +X1X2)   ¬G1    F= ¬(X2X3X4 +X1X3X4)   ¬G1 ¬G2
         + ¬(X4 +X3 +X2)   ¬G1
168F   G1= ¬(X3X4 +X2X4 +X2X3 +X1)    G2= ¬(X1X2)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X4 +X1X3 +X1X2)  ¬G1
1696   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X4 +X2X3)   ¬G1    F= ¬(X2X3X4)   ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
1697   G1= ¬(X3X4 +X2X4 +X2X3 +X1)    G2= ¬(X1X3X4 +X1X2X4 +X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X4 +X1X3 +X1X2)  ¬G1
1698   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X4 +X2X3 +X1X2)   ¬G1    F= ¬(X2X3X4 +X1X2X4 +X1X2X3)   ¬G1 ¬G2
         + ¬(X4 +X3 +X2)   ¬G1
1699   G1= ¬(X3X4 +X2X4 +X2X3 +X1)    G2= ¬(X1X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X4 +X1X3)  ¬G1
169A   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X4 +X2X3 +X1X2)   ¬G1    F= ¬(X2X3X4 +X1X2X4)   ¬G1 ¬G2
         + ¬(X4 +X3 +X2)   ¬G1
169B   G1= ¬(X3X4 +X2X4 +X2X3 +X1)    G2= ¬(X1X3X4 +X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X4 +X1X3)  ¬G1
169E   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X4 +X2X3 +X1X2)   ¬G1    F= ¬(X2X3X4)   ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
169F   G1= ¬(X3X4 +X2X4 +X2X3 +X1)    G2= ¬(X1X3X4 +X1X2)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X4 +X1X3 +X1X2)  ¬G1
16A8   G1= ¬(X3X4 +X2X4 +X2X3 +X1)    F= ¬(X2X3X4 +X1X4 +X1X2X3)   ¬G1
16A9   G1= ¬(X3X4 +X2X4 +X2X3 +X1)    G2= ¬(X1X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X4 +X1X2X3)  ¬G1
16AA   G1= ¬(X3X4 +X2X4 +X2X3 +X1)    F= ¬(X2X3X4 +X1X4)   ¬G1
16AB   G1= ¬(X3X4 +X2X4 +X2X3 +X1)    G2= ¬(X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X4 +X1X2X3)  ¬G1
16AC   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X4 +X2X3 +X1X3 +X1X2)   ¬G1    F= ¬(X2X3X4 +X1X3X4 +X1X2X3)   ¬G1 ¬G2
         + ¬(X4 +X3 +X2)   ¬G1
16AD   G1= ¬(X3X4 +X2X4 +X2X3 +X1)    G2= ¬(X1X2X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X4 +X1X2X3)  ¬G1
16AE   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X4 +X2X3 +X1X3 +X1X2)   ¬G1    F= ¬(X2X3X4 +X1X3X4)   ¬G1 ¬G2
         + ¬(X4 +X3 +X2)   ¬G1
16AF   G1= ¬(X3X4 +X2X4 +X2X3 +X1)    G2= ¬(X1X2)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X4 +X1X2)  ¬G1
16BC   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X4 +X2X3 +X1X3 +X1X2)   ¬G1    F= ¬(X2X3X4 +X1X2X3)   ¬G1 ¬G2
         + ¬(X4 +X3 +X2)   ¬G1
16BD   G1= ¬(X3X4 +X2X4 +X2X3 +X1)    G2= ¬(X1X3X4 +X1X2X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X4 +X1X2X3)  ¬G1
         + ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X4 +X2X3 +X1X3 +X1X2)   ¬G1    F= ¬(X2X3X4)   ¬G1 ¬G2
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163F  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X3 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X4 +X1X3 +X1X2)  ¬G1
16E9  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   F= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)  ¬G1
16ED  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)  ¬G1
16FA  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   F= ¬(X2X3X4 +X1X3X4 +X1X2X4)  ¬G1
16E8  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)  ¬G1
16EE  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   F= ¬(X2X3X4 +X1X3X4)  ¬G1
16EF  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3X4 +X1X2)  ¬G1
16FE  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   F= ¬(X2X3X4)  ¬G1
16FF  G1= ¬(X1 +X3X4 +X2X4 +X2X3)   G2= ¬(X1)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1)  ¬G1
177E  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   F= ¬(X1X2X3X4)  ¬G1
177F  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   F=  ¬G1
1780  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   F= ¬(X1X4 +X1X3 +X1X2)  ¬G1
1781  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X4 +X1X3 +X1X2)  ¬G1
1782  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X4 +X3X4 +X2X4 +X2X3)  ¬G1   F= ¬(X1X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
1783  G1= ¬(X2X3 +X3X4 +X2X4 +X1)   G2= ¬(X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3 +X1X4 +X1X3 +X1X2)  ¬G1
1786  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X2X3)  ¬G1   F= ¬(X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
1787  G1= ¬(X2 +X3X4 +X1)   G2= ¬(X2X4 +X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2 +X1X4 +X1X3)  ¬G1
1788  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   F= ¬(X1X4 +X1X3)  ¬G1
1789  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X4 +X1X3)  ¬G1
178A  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X4 +X3X4 +X2X4 +X2X3 +X1X2)  ¬G1   F= ¬(X1X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
178B  G1= ¬(X2X3 +X3X4 +X2X4 +X1)   G2= ¬(X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3 +X1X4 +X1X3)  ¬G1
178E  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X2X3 +X1X2)  ¬G1   F= ¬(X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
178F  G1= ¬(X2 +X3X4 +X1)   G2= ¬(X2X4 +X2X3 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2 +X1X4 +X1X3)  ¬G1
1796  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X2X3)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
1797  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
1798  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X2X3 +X1X2)  ¬G1   F= ¬(X1X2X4 +X1X2X3)  ¬G1 ¬G2
          + ¬(X4 +X3 +X2)  ¬G1
1799  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X3)  ¬G1
179A  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X2X3 +X1X2)  ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
179B  G1= ¬(X3 +X2X4 +X1)   G2= ¬(X3X4 +X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X4)  ¬G1
179E  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X2X3 +X1X2)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
179F  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X2X3 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
17A8  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   F= ¬(X1X4 +X1X2X3)  ¬G1
17A9  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X4 +X1X2X3)  ¬G1
17AA  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   F= ¬(X1X4)  ¬G1
17AB  G1= ¬(X2X3 +X3X4 +X2X4 +X1)   G2= ¬(X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3 +X1X4)  ¬G1
17AC  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X2X3 +X1X3 +X1X2)  ¬G1   F= ¬(X1X3X4 +X1X2X3)  ¬G1 ¬G2
          + ¬(X4 +X3 +X2)  ¬G1
17AD  G1= ¬(X2X4 +X3X4 +X2X3 +X1)   G2= ¬(X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X2X3)  ¬G1
17AE  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X2X3 +X1X3 +X1X2)  ¬G1   F= ¬(X1X3X4)  ¬G1 ¬G2
          + ¬(X4 +X3 +X2)  ¬G1
17AF  G1= ¬(X2 +X3X4 +X1)   G2= ¬(X2X4 +X2X3 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2 +X1X4)  ¬G1
17BC  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X2X3 +X1X3 +X1X2)  ¬G1   F= ¬(X1X2X3)  ¬G1 ¬G2
          + ¬(X4 +X3 +X2)  ¬G1
17BD  G1= ¬(X4 +X2X3 +X1)   G2= ¬(X3X4 +X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1
17BE  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X2X3 +X1X3 +X1X2)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2
          + ¬(X4 +X3 +X2)  ¬G1
17BF  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X2X3 +X1X3 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
17E8  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   F= ¬(X1X3X4 +X1X2X4 +X1X2X3)  ¬G1
17E9  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)  ¬G1
17EA  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   F= ¬(X1X3X4 +X1X2X4)  ¬G1
17EB  G1= ¬(X2X3 +X3X4 +X2X4 +X1)   G2= ¬(X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3X4 +X1X2X4)  ¬G1
17EE  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   F= ¬(X1X3X4)  ¬G1
17EF  G1= ¬(X2 +X3X4 +X1)   G2= ¬(X2X4 +X2X3 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2 +X1X3X4)  ¬G1
17FE  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   F= ¬(X1X2X3X4)  ¬G1
17FF  G1= ¬(X3X4 +X2X4 +X2X3 +X1)   F=  ¬G1
1880  G1= ¬(X3X4 +X2 +X1)   F= ¬(X2X4 +X2X3 +X1X4 +X1X3 +X1X2)  ¬G1
1881  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X4 +X1X3 +X1X2)  ¬G1
1882  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X1X4 +X3X4 +X1X2X3)  ¬G1   F= ¬(X2X4 +X1X4)  ¬G1 ¬G2
          + ¬(X4 +X3 +X1X2)  ¬G1
1883  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X4 +X1X3 +X1X2)  ¬G1
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1886  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X1X2X4 +X1X2X3)  ¬G1   F= ¬(X2X3X4 +X1X3X4)  ¬G1 ¬G2
         + ¬(X4 +X3 +X1X2)  ¬G1
1887  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X4 +X1X3 +X1X2)  ¬G1
1888  G1= ¬(X3X4 +X2 +X1)    F= ¬(X2X4 +X2X3 +X1X4 +X1X3)  ¬G1
1889  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X4 +X1X3)  ¬G1
188A  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X1X4 +X3X4 +X1X2)  ¬G1   F= ¬(X2X4 +X1X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
188B  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X4 +X1X3)  ¬G1
188E  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X1X2)  ¬G1   F= ¬(X2X3X4 +X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
188F  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X4 +X1X3 +X1X2)  ¬G1
1890  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2)  ¬G1   F= ¬(X2X4 +X2X3 +X1X2)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
1891  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X4 +X1X3 +X1X2)  ¬G1
1892  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X3X4 +X1X2X3)  ¬G1   F= ¬(X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1893  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X4 +X1X3 +X1X2)  ¬G1
1895  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X1X2X4 +X1X2X3)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1897  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3X4 +X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X4 +X1X3 +X1X2)  ¬G1
1898  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2)  ¬G1   F= ¬(X2X4 +X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
1899  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X4 +X1X3)  ¬G1
189A  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X3X4 +X1X2)  ¬G1   F= ¬(X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
189B  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X4 +X1X3)  ¬G1
189E  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X1X2)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
189F  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3X4 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X4 +X1X3 +X1X2)  ¬G1
18A0  G1= ¬(X3X4 +X2 +X1)    F= ¬(X2X4 +X2X3 +X1X4 +X1X2)  ¬G1
18A1  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X4 +X1X2)  ¬G1
18A2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X1X4 +X3X4 +X1X3)  ¬G1   F= ¬(X2X4 +X1X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
18A3  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X4 +X1X2)  ¬G1
18A4  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X3X4 +X1X3 +X1X2X4)  ¬G1   F= ¬(X2X3 +X1X3X4)  ¬G1 ¬G2
         + ¬(X4 +X3 +X1X2)  ¬G1
18A5  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X4 +X1X2)  ¬G1
18A6  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X1X3 +X1X2X4)  ¬G1   F= ¬(X2X3X4 +X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
18A7  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X4 +X1X2)  ¬G1
18A8  G1= ¬(X3X4 +X2 +X1)    F= ¬(X2X4 +X2X3 +X1X4)  ¬G1
18A9  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X4)  ¬G1
18AA  G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X2X4 +X3X4 +X1)  ¬G1   F= ¬(X2X4 +X1X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
18AB  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X4)  ¬G1
18AC  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X3X4 +X1X3 +X1X2)  ¬G1   F= ¬(X2X3 +X1X3X4)  ¬G1 ¬G2
         + ¬(X4 +X3 +X1X2)  ¬G1
18AD  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X4)  ¬G1
18AE  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X1X3 +X1X2)  ¬G1   F= ¬(X2X3X4 +X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
18AF  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X4 +X1X2)  ¬G1
18B0  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2 +X1X3)  ¬G1   F= ¬(X2X4 +X2X3 +X1X2)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
18B1  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X4 +X1X2)  ¬G1
18B2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X3X4 +X1X3)  ¬G1   F= ¬(X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
18B3  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X4 +X1X3 +X1X2)  ¬G1
18B4  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X3X4 +X1X3 +X1X2X4)  ¬G1   F= ¬(X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
18B5  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X4 +X1X2)  ¬G1
18B6  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X1X3 +X1X2X4)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
18B7  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X4 +X1X3 +X1X2)  ¬G1
18B8  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2 +X1X3)  ¬G1   F= ¬(X2X4 +X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
18B9  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X4)  ¬G1
18BA  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X3X4 +X1X3 +X1X2)  ¬G1   F= ¬(X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
18BB  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X4 +X1X3)  ¬G1
18BC  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X3X4 +X1X3 +X1X2)  ¬G1   F= ¬(X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
18BD  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X4)  ¬G1
18BE  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X1X3 +X1X2)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
18BF  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X4 +X1X3 +X1X2)  ¬G1
18C0  G1= ¬(X3X4 +X2 +X1)    F= ¬(X2X4 +X2X3 +X1X3X4 +X1X2)  ¬G1
18C1  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X3X4 +X1X2)  ¬G1
18C2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X3X4 +X1X4 +X1X3)  ¬G1   F= ¬(X2X4 +X1X3X4)  ¬G1 ¬G2
         + ¬(X4 +X3 +X1X2)  ¬G1
18C3  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X3X4 +X1X2)  ¬G1
18C6  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X1X4 +X1X3)  ¬G1   F= ¬(X2X3X4 +X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
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18E7   G1= ¬(X3X4 +X2 +X1)    G2= ¬(X1X2X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X3X4 +X1X2)  ¬G1
18E8   G1= ¬(X3X4 +X2 +X1)    F= ¬(X2X4 +X2X3 +X1X3X4)  ¬G1
18E9   G1= ¬(X3X4 +X2 +X1)    G2= ¬(X1X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X3X4)  ¬G1
18EA   G1= ¬(X4 +X3 +X1 +X2)    G2= ¬(X2X4 +X3X4 +X1)  ¬G1    F= ¬(X2X4 +X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
18EB   G1= ¬(X3X4 +X2 +X1)    G2= ¬(X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X3X4)  ¬G1
18EE   G1= ¬(X4 +X3 +X1 +X2)    G2= ¬(X3X4 +X1)  ¬G1    F= ¬(X2X3X4 +X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
18EF   G1= ¬(X3X4 +X2 +X1)    G2= ¬(X1X2)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X3X4 +X1X2)  ¬G1
18F0   G1= ¬(X3X4 +X2 +X1)    F= ¬(X2X4 +X2X3 +X1X2)  ¬G1
18F1   G1= ¬(X3X4 +X2 +X1)    G2= ¬(X1X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X3X4 +X1X2)  ¬G1
18F2   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X4 +X3X4 +X1X4 +X1X3)  ¬G1    F= ¬(X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
18F3   G1= ¬(X3X4 +X2 +X1)    G2= ¬(X1X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X3 +X1X2)  ¬G1
18F6   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X1X4 +X1X3)  ¬G1    F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
18F7   G1= ¬(X3X4 +X2 +X1)    G2= ¬(X1X4 +X1X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X4 +X1X3 +X1X2)  ¬G1
18F8   G1= ¬(X3X4 +X2 +X1)    F= ¬(X2X4 +X2X3)  ¬G1
18F9   G1= ¬(X3X4 +X2 +X1)    G2= ¬(X1X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X3X4)  ¬G1
18FA   G1= ¬(X4 +X3 +X1 +X2)    G2= ¬(X2X4 +X3X4 +X1)  ¬G1    F= ¬(X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
18FB   G1= ¬(X3X4 +X2 +X1)    G2= ¬(X1X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X3)  ¬G1
18FE   G1= ¬(X4 +X3 +X1 +X2)    G2= ¬(X3X4 +X1)  ¬G1    F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
18FF   G1= ¬(X1 +X3X4 +X2)    G2= ¬(X1)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1)  ¬G1
1990   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X2 +X3X4)  ¬G1    F= ¬(X1X2)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1991   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1992   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X2X4 +X3X4 +X1X2X3)  ¬G1    F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1993   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1995   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X1X2X4 +X1X2X3)  ¬G1    F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1997   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X1X2X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1998   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X1X2)  ¬G1    F= ¬(X1X2X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1999   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1
199A   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X1X2)  ¬G1    F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
199B   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1
199E   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X1X2)  ¬G1    F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
199F   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X1X2)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
19A0   G1= ¬(X4 +X3 +X1 +X2)    G2= ¬(X3X4 +X1)  ¬G1    F= ¬(X1X4 +X1X2)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
19A1   G1= ¬(X3X4 +X2 +X1)    G2= ¬(X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X4 +X1X2)  ¬G1
19A2   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X4 +X3X4 +X1X3)  ¬G1    F= ¬(X1X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
19A3   G1= ¬(X3X4 +X2 +X1)    G2= ¬(X2X3X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X4 +X1X2)  ¬G1
19A4   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X1X3 +X1X2X4)  ¬G1    F= ¬(X1X3X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
19A5   G1= ¬(X3X4 +X2 +X1)    G2= ¬(X2X3X4 +X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X4 +X1X2)  ¬G1
19A6   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X1X3 +X1X2X4)  ¬G1    F= ¬(X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
19A7   G1= ¬(X3X4 +X2 +X1)    G2= ¬(X2X3X4 +X1X2X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X4 +X1X2)  ¬G1
19A8   G1= ¬(X4 +X3 +X1 +X2)    G2= ¬(X3X4 +X1)  ¬G1    F= ¬(X1X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
19A9   G1= ¬(X3X4 +X2 +X1)    G2= ¬(X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X4)  ¬G1
19AA   G1= ¬(X4 +X3 +X1 +X2)    G2= ¬(X3X4 +X1)  ¬G1    F= ¬(X1X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
19AB   G1= ¬(X3X4 +X2 +X1)    G2= ¬(X2X3X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X4)  ¬G1
19AC   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X1X3 +X1X2)  ¬G1    F= ¬(X1X3X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
19AD   G1= ¬(X3X4 +X2 +X1)    G2= ¬(X2X3X4 +X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X4)  ¬G1
19AE   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X1X3 +X1X2)  ¬G1    F= ¬(X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
19AF   G1= ¬(X3X4 +X2 +X1)    G2= ¬(X2X3X4 +X1X2)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X4 +X1X2)  ¬G1
19B0   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X2 +X3X4 +X1X3)  ¬G1    F= ¬(X1X2)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
19B1   G1= ¬(X4 +X2 +X1)    G2= ¬(X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X2)  ¬G1
19B2   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X2X4 +X3X4 +X1X3)  ¬G1    F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
19B3   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X1X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
19B4   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X1X3 +X1X2X4)  ¬G1    F= ¬(X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
19B5   G1= ¬(X4 +X2 +X1)    G2= ¬(X3X4 +X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X2)  ¬G1
19B6   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X1X3 +X1X2X4)  ¬G1    F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
19B7   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X1X3 +X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
19B8   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X1X3 +X1X2)  ¬G1    F= ¬(X1X2X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
19B9   G1= ¬(X4 +X2 +X1)    G2= ¬(X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
19BA   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X1X3 +X1X2)  ¬G1    F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
19BB   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X1X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1
19BC   G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X1X3 +X1X2)  ¬G1    F= ¬(X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
19BD   G1= ¬(X4 +X2 +X1)    G2= ¬(X3X4 +X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
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19DE   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X1X3 +X1X2)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
19DF   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X1X3 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
19E0   G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X3X4 +X1)  ¬G1   F= ¬(X1X3X4 +X1X2)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
19E1   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X3X4 +X1X2)  ¬G1
19E2   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X1X4 +X1X3)  ¬G1   F= ¬(X1X3X4 +X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
19E3   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X2X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X3X4 +X1X2)  ¬G1
19E6   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X1X4 +X1X3)  ¬G1   F= ¬(X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
19E7   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X2X3X4 +X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X3X4 +X1X2)  ¬G1
19E8   G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X3X4 +X1)  ¬G1   F= ¬(X1X3X4 +X1X2X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
19E9   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X3X4)  ¬G1
19EA   G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X3X4 +X1)  ¬G1   F= ¬(X1X3X4 +X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
19EB   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X2X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X3X4)  ¬G1
19EE   G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X3X4 +X1)  ¬G1   F= ¬(X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
19EF   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X2X3X4 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X3X4 +X1X2)  ¬G1
19F0   G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X3X4 +X1)  ¬G1   F= ¬(X1X2)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
19F1   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X2)  ¬G1
19F2   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X1X4 +X1X3)  ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
19F3   G1= ¬(X3 +X2 +X1)   G2= ¬(X3X4 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2X4 +X1X2)  ¬G1
19F6   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X1X4 +X1X3)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
19F7   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X1X4 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
19F8   G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X3X4 +X1)  ¬G1   F= ¬(X1X2X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
19F9   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)  ¬G1
19FA   G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X3X4 +X1)  ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
19FB   G1= ¬(X3 +X2 +X1)   G2= ¬(X3X4 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2X4)  ¬G1
19FE   G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X3X4 +X1)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
19FF   G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X3X4 +X1)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
1AA0   G1= ¬(X3X4 +X2 +X1)   F= ¬(X2X4 +X1X4 +X1X2)  ¬G1
1AA1   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X2)  ¬G1
1AA2   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X1X4 +X3X4 +X2X3 +X1X3)  ¬G1   F= ¬(X2X4 +X1X4)  ¬G1 ¬G2
          + ¬(X4 +X3 +X1X2)  ¬G1
1AA3   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X2)  ¬G1
1AA4   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X3 +X1X2X4)  ¬G1   F= ¬(X2X3X4 +X1X3X4 +X1X2X3)  ¬G1 ¬G2
          + ¬(X4 +X3 +X1X2)  ¬G1
1AA5   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X2)  ¬G1
1AA6   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X3 +X1X2X4)  ¬G1   F= ¬(X2X3X4 +X1X3X4)  ¬G1 ¬G2
          + ¬(X4 +X3 +X1X2)  ¬G1
1AA7   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X2)  ¬G1
1AA8   G1= ¬(X3X4 +X2 +X1)   F= ¬(X2X4 +X1X4 +X1X2X3)  ¬G1
1AA9   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X2X3)  ¬G1
1AAA   G1= ¬(X3X4 +X2 +X1)   F= ¬(X2X4 +X1X4)  ¬G1
1AAB   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X2X3)  ¬G1
1AAC   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X3 +X1X2)  ¬G1   F= ¬(X2X3X4 +X1X3X4 +X1X2X3)  ¬G1 ¬G2
          + ¬(X4 +X3 +X1X2)  ¬G1
1AAD   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X2X3)  ¬G1
1AAE   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X3 +X1X2)  ¬G1   F= ¬(X2X3X4 +X1X3X4)  ¬G1 ¬G2
          + ¬(X4 +X3 +X1X2)  ¬G1
1AAF   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X2)  ¬G1
1AB0   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2 +X1X3)  ¬G1   F= ¬(X2X4 +X1X2)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
1AB1   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X2)  ¬G1
1AB2   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X3X4 +X2X3 +X1X3)  ¬G1   F= ¬(X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1AB3   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X3 +X1X2)  ¬G1
1AB4   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X3 +X1X2X4)  ¬G1   F= ¬(X2X3X4 +X1X2X3)  ¬G1 ¬G2
          + ¬(X4 +X3 +X1X2)  ¬G1
1AB5   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X2)  ¬G1
1AB6   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X3 +X1X2X4)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1AB7   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X3 +X1X2)  ¬G1
1AB8   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2 +X1X3)  ¬G1   F= ¬(X2X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
1AB9   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X2X3)  ¬G1
1ABA   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2 +X1X3)  ¬G1   F= ¬(X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
1ABB   G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X3)  ¬G1
1ABC   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X3 +X1X2)  ¬G1   F= ¬(X2X3X4 +X1X2X3)  ¬G1 ¬G2
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         + ¬(X4 +X3 +X1X2)  ¬G1
1ABD  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X2X3)  ¬G1
1ABE  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X3 +X1X2)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1ABF  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X3 +X1X2)  ¬G1
1AC0  G1= ¬(X3X4 +X2 +X1)    F= ¬(X2X4 +X1X3 +X1X2)  ¬G1
1AC1  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3 +X1X2)  ¬G1
1AC2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X3X4 +X2X3 +X1X4)  ¬G1   F= ¬(X2X4 +X1X3X4)  ¬G1 ¬G2
         + ¬(X4 +X3 +X1X2)  ¬G1
1AC3  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3 +X1X2)  ¬G1
1AC5  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X4)  ¬G1   F= ¬(X2X3X4 +X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1AC7  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3 +X1X2)  ¬G1
1AC8  G1= ¬(X3X4 +X2 +X1)    F= ¬(X2X4 +X1X3)  ¬G1
1AC9  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3)  ¬G1
1ACA  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2 +X1X4)  ¬G1   F= ¬(X2X4 +X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
1ACB  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3)  ¬G1
1ACE  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X4 +X1X2)  ¬G1   F= ¬(X2X3X4 +X1X3X4)  ¬G1 ¬G2
         + ¬(X4 +X3 +X1X2)  ¬G1
1ACF  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3 +X1X2)  ¬G1
1AD0  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2 +X1X4)  ¬G1   F= ¬(X2X4 +X1X2)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
1AD1  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3 +X1X2)  ¬G1
1AD2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X3X4 +X2X3 +X1X4)  ¬G1   F= ¬(X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1AD3  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3 +X1X2)  ¬G1
1AD4  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X4)  ¬G1   F= ¬(X2X3X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1AD5  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X3 +X1X2)  ¬G1
1AD6  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X4)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1AD7  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X3 +X1X2)  ¬G1
1AD8  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2 +X1X4)  ¬G1   F= ¬(X2X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
1AD9  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3)  ¬G1
1ADA  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2 +X1X4)  ¬G1   F= ¬(X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X2)  ¬G1
1ADB  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3)  ¬G1
1ADC  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X4 +X1X2)  ¬G1   F= ¬(X2X3X4 +X1X2X3)  ¬G1 ¬G2
         + ¬(X4 +X3 +X1X2)  ¬G1
1ADD  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X3)  ¬G1
1ADE  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X4 +X1X2)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1ADF  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X4 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X3 +X1X2)  ¬G1
1AE0  G1= ¬(X3X4 +X2 +X1)    F= ¬(X2X4 +X1X3X4 +X1X2)  ¬G1
1AE1  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3X4 +X1X2)  ¬G1
1AE2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X3X4 +X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X2X4 +X1X3X4)  ¬G1 ¬G2
         + ¬(X4 +X3 +X1X2)  ¬G1
1AE3  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3X4 +X1X2)  ¬G1
1AE4  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X2X3X4 +X1X3X4 +X1X2X3)  ¬G1 ¬G2
         + ¬(X4 +X3 +X1X2)  ¬G1
1AE5  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3X4 +X1X2)  ¬G1
1AE6  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X2X3X4 +X1X3X4)  ¬G1 ¬G2
         + ¬(X4 +X3 +X1X2)  ¬G1
1AE7  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3X4 +X1X2)  ¬G1
1AE8  G1= ¬(X3X4 +X2 +X1)    F= ¬(X2X4 +X1X3X4 +X1X2X3)  ¬G1
1AE9  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3X4 +X1X2X3)  ¬G1
1AEA  G1= ¬(X3X4 +X2 +X1)    F= ¬(X2X4 +X1X3X4)  ¬G1
1AEB  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3X4 +X1X2X3)  ¬G1
1AEC  G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X3X4 +X2X3 +X1)  ¬G1   F= ¬(X2X3X4 +X1X3X4 +X1X2X3)  ¬G1 ¬G2
         + ¬(X4 +X3 +X1)  ¬G1
1AED  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3X4 +X1X2X3)  ¬G1
1AEE  G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X3X4 +X2X3 +X1)  ¬G1   F= ¬(X2X3X4 +X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
1AEF  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3X4 +X1X2)  ¬G1
1AF0  G1= ¬(X3X4 +X2 +X1)    F= ¬(X2X4 +X1X2)  ¬G1
1AF1  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3X4 +X1X2)  ¬G1
1AF2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X3X4 +X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1AF3  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3 +X1X2)  ¬G1
1AF4  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X2X3X4 +X1X2X3)  ¬G1 ¬G2
         + ¬(X4 +X3 +X1X2)  ¬G1
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1AF5  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X2)  ¬G1
1AF6  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1AF7  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X4 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X3 +X1X2)  ¬G1
1AF8  G1= ¬(X3X4 +X2 +X1)   F= ¬(X2X4 +X1X2X3)  ¬G1
1AF9  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3X4 +X1X2X3)  ¬G1
1AFA  G1= ¬(X3X4 +X2 +X1)   F= ¬(X2X4)  ¬G1
1AFB  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3)  ¬G1
1AFC  G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X3X4 +X2X3 +X1)  ¬G1   F= ¬(X2X3X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
1AFD  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X2X3)  ¬G1
1AFE  G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X3X4 +X2X3 +X1)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
1AFF  G1= ¬(X1 +X3X4 +X2)   G2= ¬(X1)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1)  ¬G1
1BB0  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2 +X3X4 +X2X3 +X1X3)  ¬G1   F= ¬(X1X2)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1BB1  G1= ¬(X4 +X2 +X1)   G2= ¬(X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2)  ¬G1
1BB2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X4 +X3X4 +X2X3 +X1X3)  ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1BB3  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1BB4  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X3 +X1X2X4)  ¬G1   F= ¬(X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1BB5  G1= ¬(X4 +X2 +X1)   G2= ¬(X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2)  ¬G1
1BB6  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X3 +X1X2X4)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1BB7  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X3 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1BB8  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X3 +X1X2)  ¬G1   F= ¬(X1X2X4 +X1X2X3)  ¬G1 ¬G2
       + ¬(X4 +X3 +X1X2)  ¬G1
1BB9  G1= ¬(X4 +X2 +X1)   G2= ¬(X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1
1BBA  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X3 +X1X2)  ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1BBB  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1
1BBC  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X3 +X1X2)  ¬G1   F= ¬(X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1BBD  G1= ¬(X4 +X2 +X1)   G2= ¬(X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1
1BBE  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X3 +X1X2)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1BBF  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X3 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1BD0  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2 +X3X4 +X2X3 +X1X4)  ¬G1   F= ¬(X1X2)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1BD1  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
1BD2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X4)  ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1BD3  G1= ¬(X3 +X2 +X1)   G2= ¬(X3X4 +X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2X4 +X1X2)  ¬G1
1BD6  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X4)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1BD7  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1BD8  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X4 +X1X2)  ¬G1   F= ¬(X1X2X4 +X1X2X3)  ¬G1 ¬G2
       + ¬(X4 +X3 +X1X2)  ¬G1
1BD9  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)  ¬G1
1BDA  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X4 +X1X2)  ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1BDB  G1= ¬(X3 +X2 +X1)   G2= ¬(X3X4 +X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2X4)  ¬G1
1BDE  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X4 +X1X2)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1BDF  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X4 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1BE0  G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X3X4 +X2X3 +X1)  ¬G1   F= ¬(X1X3X4 +X1X2)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
1BE1  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3X4 +X1X2)  ¬G1
1BE2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X1X3X4 +X1X2X4)  ¬G1 ¬G2
       + ¬(X4 +X3 +X1X2)  ¬G1
1BE3  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X3X4 +X1X2)  ¬G1
1BE4  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X1X3X4 +X1X2X3)  ¬G1 ¬G2
       + ¬(X4 +X3 +X1X2)  ¬G1
1BE5  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X2X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3X4 +X1X2)  ¬G1
1BE6  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1BE7  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X2X3 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X3X4 +X1X2)  ¬G1
1BE8  G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X3X4 +X2X3 +X1)  ¬G1   F= ¬(X1X3X4 +X1X2X4 +X1X2X3)  ¬G1 ¬G2
       + ¬(X4 +X3 +X1)  ¬G1
1BE9  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3X4 +X1X2X3)  ¬G1
1BEA  G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X3X4 +X2X3 +X1)  ¬G1   F= ¬(X1X3X4 +X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
1BEB  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X3X4)  ¬G1
1BEC  G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X3X4 +X2X3 +X1)  ¬G1   F= ¬(X1X3X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
1BED  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X2X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3X4 +X1X2X3)  ¬G1
1BEE  G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X3X4 +X2X3 +X1)  ¬G1   F= ¬(X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
1BEF  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X2X3 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X3X4 +X1X2)  ¬G1
1BF0  G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X3X4 +X2X3 +X1)  ¬G1   F= ¬(X1X2)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
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1BF1  G1= ¬(X3X4 +X2 +X1)    G2= ¬(X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2)  ¬G1
1BF2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1BF3  G1= ¬(X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2X4 +X1X2)  ¬G1
1BF4  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1BF5  G1= ¬(X4 +X2 +X1)   G2= ¬(X3X4 +X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2)  ¬G1
1BF6  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1BF7  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X4 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1BF8  G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X3X4 +X2X3 +X1)  ¬G1   F= ¬(X1X2X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
1BF9  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)  ¬G1
1BFA  G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X3X4 +X2X3 +X1)  ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
1BFB  G1= ¬(X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2X4)  ¬G1
1BFC  G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X3X4 +X2X3 +X1)  ¬G1   F= ¬(X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
1BFD  G1= ¬(X4 +X2 +X1)   G2= ¬(X3X4 +X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1
1BFE  G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X3X4 +X2X3 +X1)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
1BFF  G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X3X4 +X2X3 +X1)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
1EE0  G1= ¬(X3X4 +X2 +X1)    F= ¬(X2X3X4 +X1X3X4 +X1X2)  ¬G1
1EE1  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3X4 +X1X2)  ¬G1
1EE2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X2X3X4 +X1X3X4 +X1X2X4)  ¬G1 ¬G2
         + ¬(X4 +X3 +X1X2)  ¬G1
1EE3  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3X4 +X1X2)  ¬G1
1EE5  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X2X3X4 +X1X3X4)  ¬G1 ¬G2
         + ¬(X4 +X3 +X1X2)  ¬G1
1EE7  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3X4 +X1X2)  ¬G1
1EE8  G1= ¬(X3X4 +X2 +X1)    F= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)  ¬G1
1EE9  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)  ¬G1
1EEA  G1= ¬(X3X4 +X2 +X1)    F= ¬(X2X3X4 +X1X3X4 +X1X2X4)  ¬G1
1EEB  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)  ¬G1
1EEE  G1= ¬(X3X4 +X2 +X1)    F= ¬(X2X3X4 +X1X3X4)  ¬G1
1EEF  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3X4 +X1X2)  ¬G1
1EF0  G1= ¬(X3X4 +X2 +X1)    F= ¬(X2X3X4 +X1X2)  ¬G1
1EF1  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3X4 +X1X2)  ¬G1
1EF2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X2X3X4 +X1X2X4)  ¬G1 ¬G2
         + ¬(X4 +X3 +X1X2)  ¬G1
1EF3  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3 +X1X2)  ¬G1
1EF5  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2
         + ¬(X4 +X3 +X1X2)  ¬G1
1EF7  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X4 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X4 +X1X3 +X1X2)  ¬G1
1EF8  G1= ¬(X3X4 +X2 +X1)    F= ¬(X2X3X4 +X1X2X4 +X1X2X3)  ¬G1
1EF9  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)  ¬G1
1EFA  G1= ¬(X3X4 +X2 +X1)    F= ¬(X2X3X4 +X1X2X4)  ¬G1
1EFB  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3 +X1X2X4)  ¬G1
1EFE  G1= ¬(X3X4 +X2 +X1)    F= ¬(X2X3X4)  ¬G1
1EFF  G1= ¬(X1 +X3X4 +X2)   G2= ¬(X1)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1)  ¬G1
1FF0  G1= ¬(X3X4 +X2 +X1)    F= ¬(X1X2)  ¬G1
1FF1  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)  ¬G1
1FF2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2
         + ¬(X4 +X3 +X1X2)  ¬G1
1FF3  G1= ¬(X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1
1FF6  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2
         + ¬(X4 +X3 +X1X2)  ¬G1
1FF7  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
1FF8  G1= ¬(X3X4 +X2 +X1)    F= ¬(X1X2X4 +X1X2X3)  ¬G1
1FF9  G1= ¬(X3X4 +X2 +X1)   G2= ¬(X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2X4 +X1X2X3)  ¬G1
1FFA  G1= ¬(X3X4 +X2 +X1)    F= ¬(X1X2X4)  ¬G1
1FFB  G1= ¬(X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2X4)  ¬G1
1FFE  G1= ¬(X3X4 +X2 +X1)    F= ¬(X1X2X3X4)  ¬G1
1FFF  G1= ¬(X3X4 +X2 +X1)    F=  ¬G1
2380  G1= ¬(X4 +X3 +X2 +X1)    F= ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2381  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2382  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X4 +X1X2X3)  ¬G1   F= ¬(X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2383  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
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2884  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3 +X1X2X4)  ¬G1   F= ¬(X3X4 +X2X3 +X1X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
2885  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2886  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X1X2X4 +X1X2X3)  ¬G1   F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2887  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2888  G1= ¬(X4 +X3 +X2 +X1)    F= ¬(X4 +X2X3 +X1X3)  ¬G1
2889  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3)  ¬G1
288A  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X4 +X1X2)  ¬G1   F= ¬(X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
288B  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3)  ¬G1
288C  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3 +X1X2)  ¬G1   F= ¬(X3X4 +X2X3 +X1X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
288D  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3)  ¬G1
288E  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X1X2)  ¬G1   F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
288F  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2894  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3X4 +X1X2X4)  ¬G1   F= ¬(X2X3)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2895  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2896  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2
         + ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2897  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X3X4 +X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2898  G1= ¬(X4 +X2 +X3 +X1)   G2= ¬(X2 +X1X3X4)  ¬G1   F= ¬(X2X4 +X2X3)  ¬G1 ¬G2+ ¬(X4 +X2 +X1X3)  ¬G1
2899  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3)  ¬G1
289A  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X1X3X4 +X1X2)  ¬G1   F= ¬(X2X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
289B  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3)  ¬G1
289C  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3X4 +X1X2)  ¬G1   F= ¬(X2X3)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
289D  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3)  ¬G1
289E  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
289F  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X3X4 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
28A8  G1= ¬(X4 +X3 +X2 +X1)    F= ¬(X4 +X2X3)  ¬G1
28A9  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
28AA  G1= ¬(X4 +X1 +X3 +X2)   G2= ¬(X4 +X1)  ¬G1   F= ¬(X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)  ¬G1
28AB  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
28AC  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3 +X1X2)  ¬G1   F= ¬(X3X4 +X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
28AD  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
28AE  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X1X3 +X1X2)  ¬G1   F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
28AF  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X2)  ¬G1
28BC  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3 +X1X2)  ¬G1   F= ¬(X2X3)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
28BD  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
28BE  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3 +X1X2)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
28BF  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X3 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
28C0  G1= ¬(X3 +X2 +X1)    F= ¬(X3X4 +X2X4 +X2X3 +X1X3 +X1X2)  ¬G1
28C1  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X3 +X1X2)  ¬G1
28C2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)  ¬G1   F= ¬(X3X4 +X2X4)  ¬G1 ¬G2
         + ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
28C3  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X3 +X1X2)  ¬G1
28C4  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3 +X1X4)  ¬G1   F= ¬(X3X4 +X2X3 +X1X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
28C5  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X3 +X1X2)  ¬G1
28C6  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X1X4 +X1X2X3)  ¬G1   F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
28C7  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X3 +X1X2)  ¬G1
28C8  G1= ¬(X3 +X2 +X1)    F= ¬(X3X4 +X2X4 +X2X3 +X1X3)  ¬G1
28C9  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X3)  ¬G1
28CA  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X1X4 +X1X2)  ¬G1   F= ¬(X3X4 +X2X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
28CB  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X3)  ¬G1
28CC  G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X3 +X1)  ¬G1   F= ¬(X3X4 +X2X3 +X1X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
28CD  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X3)  ¬G1
28CE  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X1X4 +X1X2)  ¬G1   F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
28CF  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X3 +X1X2)  ¬G1
28D4  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4)  ¬G1   F= ¬(X2X3)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
28D5  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
28D6  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X4 +X1X2X3)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
28D7  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
28D8  G1= ¬(X4 +X2 +X3 +X1)   G2= ¬(X2 +X1X4)  ¬G1   F= ¬(X2X4 +X2X3)  ¬G1 ¬G2+ ¬(X4 +X2 +X1X3)  ¬G1
28D9  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X3)  ¬G1
28DA  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X1X4 +X1X2)  ¬G1   F= ¬(X2X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
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28DB   G1= ¬(X3 +X2 +X1)   G2= ¬(X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X3)  ¬G1
28DC   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4 +X1X2)  ¬G1   F= ¬(X2X3)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
28DD   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3)  ¬G1
28DE   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X4 +X1X2)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
28DF   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X4 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
28E5   G1= ¬(X3 +X2 +X1)   F= ¬(X3X4 +X2X4 +X2X3)  ¬G1
28E9   G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)  ¬G1
28EA   G1= ¬(X4 +X1 +X3 +X2)   G2= ¬(X3X4 +X2X4 +X1)  ¬G1   F= ¬(X3X4 +X2X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)  ¬G1
28EB   G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)  ¬G1
28EC   G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X3 +X1)  ¬G1   F= ¬(X3X4 +X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
28ED   G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)  ¬G1
28EE   G1= ¬(X4 +X1 +X3 +X2)   G2= ¬(X3X4 +X1)  ¬G1   F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)  ¬G1
28EF   G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X2)  ¬G1
28FC   G1= ¬(X4 +X1 +X3 +X2)   G2= ¬(X2X3 +X1)  ¬G1   F= ¬(X2X3)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)  ¬G1
28FD   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
28FE   G1= ¬(X4 +X1 +X3 +X2)   G2= ¬(X2X3X4 +X1)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)  ¬G1
28FF   G1= ¬(X4 +X1 +X3 +X2)   G2= ¬(X1)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)  ¬G1
2994   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X3 +X2X3X4 +X1X3X4 +X1X2X4)  ¬G1   F= ¬(X1X2X3)  ¬G1 ¬G2
        + ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2995   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2996   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2
        + ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2997   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2998   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2)  ¬G1   F= ¬(X1X2X4 +X1X2X3)  ¬G1 ¬G2
        + ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2999   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3)  ¬G1
299A   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2)  ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
299B   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3)  ¬G1
299C   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2)  ¬G1   F= ¬(X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
299D   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3)  ¬G1
299E   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
299F   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
29A8   G1= ¬(X4 +X1 +X3 +X2)   G2= ¬(X2X3X4 +X1)  ¬G1   F= ¬(X1X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)  ¬G1
29A9   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
29AA   G1= ¬(X4 +X1 +X3 +X2)   G2= ¬(X2X3X4 +X1)  ¬G1   F= ¬(X1X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)  ¬G1
29AB   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
29AC   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3 +X1X2)  ¬G1   F= ¬(X1X3X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
29AD   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
29AE   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3 +X1X2)  ¬G1   F= ¬(X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
29AF   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X2)  ¬G1
29BC   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3 +X1X2)  ¬G1   F= ¬(X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
29BD   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
29BE   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3 +X1X2)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
29BF   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
29C0   G1= ¬(X4 +X1 +X3 +X2)   G2= ¬(X2X3X4 +X1)  ¬G1   F= ¬(X1X3 +X1X2)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)  ¬G1
29C1   G1= ¬(X3 +X2 +X1)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X3 +X1X2)  ¬G1
29C2   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X4 +X1X2X3)  ¬G1   F= ¬(X1X3X4 +X1X2X4)  ¬G1 ¬G2
        + ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
29C3   G1= ¬(X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X3 +X1X2)  ¬G1
29C4   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X3 +X2X3X4 +X1X4)  ¬G1   F= ¬(X1X3)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
29C5   G1= ¬(X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X3 +X1X2)  ¬G1
29C6   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X4 +X1X2X3)  ¬G1   F= ¬(X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
29C7   G1= ¬(X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X3 +X1X2)  ¬G1
29C8   G1= ¬(X4 +X1 +X3 +X2)   G2= ¬(X2X3X4 +X1)  ¬G1   F= ¬(X1X3 +X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)  ¬G1
29C9   G1= ¬(X3 +X2 +X1)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X3)  ¬G1
29CA   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X4 +X1X2)  ¬G1   F= ¬(X1X3X4 +X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
29CB   G1= ¬(X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X3)  ¬G1
29CC   G1= ¬(X4 +X1 +X3 +X2)   G2= ¬(X2X3X4 +X1)  ¬G1   F= ¬(X1X3)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)  ¬G1
29CD   G1= ¬(X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X3)  ¬G1
29CE   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X4 +X1X2)  ¬G1   F= ¬(X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
29CF   G1= ¬(X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X3 +X1X2)  ¬G1
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29D4   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X3 +X2X3X4 +X1X4)  ¬G1   F= ¬(X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
29D5   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
29D6   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X4 +X1X2X3)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
29D7   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
29D8   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X4 +X1X2)  ¬G1   F= ¬(X1X2X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
29D9   G1= ¬(X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X3)  ¬G1
29DA   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X4 +X1X2)  ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
29DB   G1= ¬(X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X3)  ¬G1
29DC   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X4 +X1X2)  ¬G1   F= ¬(X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
29DD   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3)  ¬G1
29DE   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X4 +X1X2)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
29DF   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X4 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
29E8   G1= ¬(X4 +X1 +X3 +X2)   G2= ¬(X2X3X4 +X1)  ¬G1   F= ¬(X1X3X4 +X1X2X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)  ¬G1
29E9   G1= ¬(X3 +X2 +X1)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)  ¬G1
29EA   G1= ¬(X4 +X1 +X3 +X2)   G2= ¬(X2X3X4 +X1)  ¬G1   F= ¬(X1X3X4 +X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)  ¬G1
29EB   G1= ¬(X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)  ¬G1
29EC   G1= ¬(X4 +X1 +X3 +X2)   G2= ¬(X2X3X4 +X1)  ¬G1   F= ¬(X1X3X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)  ¬G1
29ED   G1= ¬(X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)  ¬G1
29EE   G1= ¬(X4 +X1 +X3 +X2)   G2= ¬(X2X3X4 +X1)  ¬G1   F= ¬(X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)  ¬G1
29EF   G1= ¬(X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X2)  ¬G1
29FC   G1= ¬(X4 +X1 +X3 +X2)   G2= ¬(X2X3X4 +X1)  ¬G1   F= ¬(X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)  ¬G1
29FD   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
29FE   G1= ¬(X4 +X1 +X3 +X2)   G2= ¬(X2X3X4 +X1)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)  ¬G1
29FF   G1= ¬(X4 +X1 +X3 +X2)   G2= ¬(X2X3X4 +X1)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)  ¬G1
2AA8   G1= ¬(X4 +X3 +X2 +X1)    F= ¬(X4 +X1X2X3)  ¬G1
2AA9   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1
2AAA   G1= ¬(X4 +X3 +X2 +X1)    F= ¬(X4)  ¬G1
2AAB   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1
2AAC   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3 +X1X2)  ¬G1   F= ¬(X3X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
2AAD   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1
2AAE   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3 +X1X2)  ¬G1   F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
2AAF   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2)  ¬G1
2ABC   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3 +X1X2)  ¬G1   F= ¬(X2X3X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2ABD   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1
2ABE   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3 +X1X2)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2ABF   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X3 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X3 +X1X2)  ¬G1
2AC0   G1= ¬(X3 +X2 +X1)    F= ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
2AC1   G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
2AC2   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X2X3 +X1X4)  ¬G1   F= ¬(X3X4 +X2X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2AC3   G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
2AC4   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3 +X1X4)  ¬G1   F= ¬(X3X4 +X1X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
2AC5   G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
2AC6   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X4)  ¬G1   F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2AC7   G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
2AC8   G1= ¬(X3 +X2 +X1)    F= ¬(X3X4 +X2X4 +X1X3)  ¬G1
2AC9   G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)  ¬G1
2ACA   G1= ¬(X4 +X2 +X3 +X1)   G2= ¬(X3X4 +X2 +X1X4)  ¬G1   F= ¬(X3X4 +X2X4)  ¬G1 ¬G2+ ¬(X4 +X2 +X1X3)  ¬G1
2ACB   G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)  ¬G1
2ACC   G1= ¬(X4 +X3 +X1 +X2)   G2= ¬(X3 +X1)  ¬G1   F= ¬(X3X4 +X1X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1)  ¬G1
2ACD   G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)  ¬G1
2ACE   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X4 +X1X2)  ¬G1   F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2ACF   G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
2AD4   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4)  ¬G1   F= ¬(X2X3X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2AD5   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X3 +X1X2)  ¬G1
2AD6   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2AD7   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X3 +X1X2)  ¬G1
2AD8   G1= ¬(X4 +X2 +X3 +X1)   G2= ¬(X2 +X1X4)  ¬G1   F= ¬(X2X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X2 +X1X3)  ¬G1
2AD9   G1= ¬(X3 +X2 +X1)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)  ¬G1
2ADA   G1= ¬(X4 +X2 +X3 +X1)   G2= ¬(X2 +X1X4)  ¬G1   F= ¬(X2X4)  ¬G1 ¬G2+ ¬(X4 +X2 +X1X3)  ¬G1
2ADB   G1= ¬(X3 +X2 +X1)   G2= ¬(X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)  ¬G1
2ADC   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4 +X1X2)  ¬G1   F= ¬(X2X3X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
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2ADD  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X3)   ¬G1
2ADE  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3 +X1X4 +X1X2)   ¬G1    F= ¬(X2X3X4)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)   ¬G1
2ADF  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X4 +X1X2)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X3 +X1X2)   ¬G1
2AE8  G1= ¬(X3 +X2 +X1)      F= ¬(X3X4 +X2X4 +X1X2X3)   ¬G1
2AE9  G1= ¬(X3 +X2 +X1)    G2= ¬(X1X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)   ¬G1
2AEA  G1= ¬(X3 +X2 +X1)      F= ¬(X3X4 +X2X4)   ¬G1
2AEB  G1= ¬(X3 +X2 +X1)    G2= ¬(X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)   ¬G1
2AEC  G1= ¬(X4 +X3 +X1 +X2)    G2= ¬(X3 +X1)   ¬G1    F= ¬(X3X4 +X1X2X3)   ¬G1 ¬G2+ ¬(X4 +X3 +X1)   ¬G1
2AED  G1= ¬(X3 +X2 +X1)    G2= ¬(X1X2X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)   ¬G1
2AEE  G1= ¬(X4 +X3 +X1 +X2)    G2= ¬(X3 +X1)   ¬G1    F= ¬(X3X4)   ¬G1 ¬G2+ ¬(X4 +X3 +X1)   ¬G1
2AEF  G1= ¬(X3 +X2 +X1)    G2= ¬(X1X2)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2)   ¬G1
2AFC  G1= ¬(X4 +X1 +X3 +X2)    G2= ¬(X2X3 +X1)   ¬G1    F= ¬(X2X3X4 +X1X2X3)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)   ¬G1
2AFD  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)   ¬G1
2AFE  G1= ¬(X4 +X1 +X3 +X2)    G2= ¬(X2X3 +X1)   ¬G1    F= ¬(X2X3X4)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)   ¬G1
2AFF  G1= ¬(X4 +X1 +X3 +X2)    G2= ¬(X1)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1)   ¬G1
2BBC  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3 +X1X3 +X1X2)   ¬G1    F= ¬(X1X2X3)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)   ¬G1
2BBD  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3X4 +X1X3X4 +X1X2X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)   ¬G1
2BBE  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3 +X1X3 +X1X2)   ¬G1    F= ¬(X1X2X3X4)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)   ¬G1
2BBF  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3 +X1X3 +X1X2)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)   ¬G1
2BC0  G1= ¬(X4 +X1 +X3 +X2)    G2= ¬(X2X3 +X1)   ¬G1    F= ¬(X1X3 +X1X2)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)   ¬G1
2BC1  G1= ¬(X3 +X2 +X1)    G2= ¬(X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)   ¬G1
2BC2  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3 +X1X4)   ¬G1    F= ¬(X1X3X4 +X1X2X4)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)   ¬G1
2BC3  G1= ¬(X3 +X2 +X1)    G2= ¬(X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X3 +X1X2)   ¬G1
2BC4  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X3 +X2X3 +X1X4)   ¬G1    F= ¬(X1X3)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)   ¬G1
2BC5  G1= ¬(X3 +X2 +X1)    G2= ¬(X2X3X4 +X1X2X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)   ¬G1
2BC6  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3 +X1X4)   ¬G1    F= ¬(X1X3X4)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)   ¬G1
2BC7  G1= ¬(X3 +X2 +X1)    G2= ¬(X2X3 +X1X2X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X3 +X1X2)   ¬G1
2BC8  G1= ¬(X4 +X1 +X3 +X2)    G2= ¬(X2X3 +X1)   ¬G1    F= ¬(X1X3 +X1X2X4)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)   ¬G1
2BC9  G1= ¬(X3 +X2 +X1)    G2= ¬(X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)   ¬G1
2BCA  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3 +X1X4 +X1X2)   ¬G1    F= ¬(X1X3X4 +X1X2X4)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)   ¬G1
2BCB  G1= ¬(X3 +X2 +X1)    G2= ¬(X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X3)   ¬G1
2BCC  G1= ¬(X4 +X1 +X3 +X2)    G2= ¬(X2X3 +X1)   ¬G1    F= ¬(X1X3)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)   ¬G1
2BCD  G1= ¬(X3 +X2 +X1)    G2= ¬(X2X3X4 +X1X2X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)   ¬G1
2BCE  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3 +X1X4 +X1X2)   ¬G1    F= ¬(X1X3X4)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)   ¬G1
2BCF  G1= ¬(X3 +X2 +X1)    G2= ¬(X2X3 +X1X2)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X3 +X1X2)   ¬G1
2BD4  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3 +X1X4)   ¬G1    F= ¬(X1X2X3)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)   ¬G1
2BD5  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3X4 +X1X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X3 +X1X2)   ¬G1
2BD6  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3 +X1X4)   ¬G1    F= ¬(X1X2X3X4)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)   ¬G1
2BD7  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3 +X1X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)   ¬G1
2BD8  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3 +X1X4 +X1X2)   ¬G1    F= ¬(X1X2X4 +X1X2X3)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)   ¬G1
2BD9  G1= ¬(X3 +X2 +X1)    G2= ¬(X2X3X4 +X1X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)   ¬G1
2BDA  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3 +X1X4 +X1X2)   ¬G1    F= ¬(X1X2X4)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)   ¬G1
2BDB  G1= ¬(X3 +X2 +X1)    G2= ¬(X2X3 +X1X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X3)   ¬G1
2BDC  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3 +X1X4 +X1X2)   ¬G1    F= ¬(X1X2X3)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)   ¬G1
2BDD  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3X4 +X1X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X3)   ¬G1
2BDE  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3 +X1X4 +X1X2)   ¬G1    F= ¬(X1X2X3X4)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)   ¬G1
2BDF  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3 +X1X4 +X1X2)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)   ¬G1
2BE8  G1= ¬(X4 +X1 +X3 +X2)    G2= ¬(X2X3 +X1)   ¬G1    F= ¬(X1X3X4 +X1X2X4 +X1X2X3)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)   ¬G1
2BE9  G1= ¬(X3 +X2 +X1)    G2= ¬(X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)   ¬G1
2BEA  G1= ¬(X4 +X1 +X3 +X2)    G2= ¬(X2X3 +X1)   ¬G1    F= ¬(X1X3X4 +X1X2X4)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)   ¬G1
2BEB  G1= ¬(X3 +X2 +X1)    G2= ¬(X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)   ¬G1
2BEC  G1= ¬(X4 +X1 +X3 +X2)    G2= ¬(X2X3 +X1)   ¬G1    F= ¬(X1X3X4 +X1X2X3)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)   ¬G1
2BED  G1= ¬(X3 +X2 +X1)    G2= ¬(X2X3X4 +X1X2X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)   ¬G1
2BEE  G1= ¬(X4 +X1 +X3 +X2)    G2= ¬(X2X3 +X1)   ¬G1    F= ¬(X1X3X4)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)   ¬G1
2BEF  G1= ¬(X3 +X2 +X1)    G2= ¬(X2X3 +X1X2)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X2)   ¬G1
2BFC  G1= ¬(X4 +X1 +X3 +X2)    G2= ¬(X2X3 +X1)   ¬G1    F= ¬(X1X2X3)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)   ¬G1
2BFD  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3X4 +X1X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)   ¬G1
2BFE  G1= ¬(X4 +X1 +X3 +X2)    G2= ¬(X2X3 +X1)   ¬G1    F= ¬(X1X2X3X4)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)   ¬G1
2BFF  G1= ¬(X4 +X1 +X3 +X2)    G2= ¬(X2X3 +X1)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)   ¬G1
2C00  G1= ¬(X3 +X2 +X1)      F= ¬(X3X4 +X2X3 +X1X3 +X1X2)   ¬G1
2C01  G1= ¬(X3 +X2 +X1)    G2= ¬(X1X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X3 +X1X2)   ¬G1
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2CC2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)  ¬G1   F= ¬(X3X4 +X1X2X4)  ¬G1 ¬G2
      + ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2CC3  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X3 +X1X2)  ¬G1
2CC4  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3 +X2X4 +X1X4)  ¬G1   F= ¬(X3X4 +X2X3 +X1X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
2CC5  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X3 +X1X2)  ¬G1
2CC6  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)  ¬G1   F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2CC7  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X3 +X1X2)  ¬G1
2CC8  G1= ¬(X3 +X2 +X1)   F= ¬(X3X4 +X2X3 +X1X3 +X1X2X4)  ¬G1
2CC9  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X3 +X1X2X4)  ¬G1
2CCA  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X1X4 +X1X2)  ¬G1   F= ¬(X3X4 +X1X2X4)  ¬G1 ¬G2
      + ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2CCB  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X3 +X1X2X4)  ¬G1
2CCC  G1= ¬(X3 +X2 +X1)   F= ¬(X3X4 +X2X3 +X1X3)  ¬G1
2CCD  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X3 +X1X2X4)  ¬G1
2CCE  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X1X4 +X1X2)  ¬G1   F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2CCF  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X3 +X1X2)  ¬G1
2CD0  G1= ¬(X4 +X2 +X3 +X1)   G2= ¬(X2 +X1X4)  ¬G1   F= ¬(X2X3 +X1X2)  ¬G1 ¬G2+ ¬(X4 +X2 +X1X3)  ¬G1
2CD1  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X3 +X1X2)  ¬G1
2CD2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X1X4 +X1X2X3)  ¬G1   F= ¬(X2X3X4 +X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2CD3  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X3 +X1X2)  ¬G1
2CD4  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X2X4 +X1X4)  ¬G1   F= ¬(X2X3)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2CD5  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X4 +X1X3 +X1X2)  ¬G1
2CD6  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X1X4 +X1X2X3)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2CD7  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X4 +X1X3 +X1X2)  ¬G1
2CD8  G1= ¬(X4 +X2 +X3 +X1)   G2= ¬(X2 +X1X4)  ¬G1   F= ¬(X2X3 +X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X2 +X1X3)  ¬G1
2CD9  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X3 +X1X2X4)  ¬G1
2CDA  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X1X4 +X1X2)  ¬G1   F= ¬(X2X3X4 +X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2CDB  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X3 +X1X2X4)  ¬G1
2CDC  G1= ¬(X4 +X2 +X3 +X1)   G2= ¬(X2 +X1X4)  ¬G1   F= ¬(X2X3)  ¬G1 ¬G2+ ¬(X4 +X2 +X1X3)  ¬G1
2CDD  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X4 +X1X3)  ¬G1
2CDE  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X1X4 +X1X2)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2CDF  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X4 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X4 +X1X3 +X1X2)  ¬G1
2CE0  G1= ¬(X3 +X2 +X1)   F= ¬(X3X4 +X2X3 +X1X2)  ¬G1
2CE1  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X2)  ¬G1
2CE2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X1X4 +X1X3)  ¬G1   F= ¬(X3X4 +X1X2X4)  ¬G1 ¬G2
      + ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2CE3  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X2)  ¬G1
2CE4  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3 +X2X4 +X1X4)  ¬G1   F= ¬(X3X4 +X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
2CE5  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X2)  ¬G1
2CE6  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X4 +X1X4 +X1X3)  ¬G1   F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2CE7  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X2)  ¬G1
2CE8  G1= ¬(X3 +X2 +X1)   F= ¬(X3X4 +X2X3 +X1X2X4)  ¬G1
2CE9  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X2X4)  ¬G1
2CEA  G1= ¬(X4 +X1 +X3 +X2)   G2= ¬(X3X4 +X2X4 +X1)  ¬G1   F= ¬(X3X4 +X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)  ¬G1
2CEB  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X2X4)  ¬G1
2CEC  G1= ¬(X3 +X2 +X1)   F= ¬(X3X4 +X2X3)  ¬G1
2CED  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X2X4)  ¬G1
2CEE  G1= ¬(X4 +X1 +X3 +X2)   G2= ¬(X3X4 +X2X4 +X1)  ¬G1   F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)  ¬G1
2CEF  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X2)  ¬G1
2CF0  G1= ¬(X4 +X2 +X1 +X3)   G2= ¬(X2 +X1)  ¬G1   F= ¬(X2X3 +X1X2)  ¬G1 ¬G2+ ¬(X4 +X2 +X1)  ¬G1
2CF1  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X2)  ¬G1
2CF2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X1X4 +X1X3)  ¬G1   F= ¬(X2X3X4 +X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2CF3  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X3 +X1X2)  ¬G1
2CF4  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X2X4 +X1X4 +X1X3)  ¬G1   F= ¬(X2X3)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2CF5  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X4 +X1X2)  ¬G1
2CF6  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X1X4 +X1X3)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2CF7  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X4 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X4 +X1X3 +X1X2)  ¬G1
2CF8  G1= ¬(X4 +X2 +X1 +X3)   G2= ¬(X2 +X1)  ¬G1   F= ¬(X2X3 +X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X2 +X1)  ¬G1
2CF9  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X2X4)  ¬G1
2CFA  G1= ¬(X4 +X1 +X3 +X2)   G2= ¬(X2X4 +X1)  ¬G1   F= ¬(X2X3X4 +X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)  ¬G1
2CFB  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X3 +X1X2X4)  ¬G1
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2CFC  G1= ¬(X4 +X2 +X1 +X3)   G2= ¬(X2 +X1)  ¬G1   F= ¬(X2X3)  ¬G1 ¬G2+ ¬(X4 +X2 +X1)  ¬G1
2CFD  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X4)  ¬G1
2CFE  G1= ¬(X4 +X1 +X3 +X2)   G2= ¬(X2X4 +X1)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)  ¬G1
2CFF  G1= ¬(X1 +X3 +X2)   G2= ¬(X1)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1)  ¬G1
2DD0  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2 +X2X4 +X1X4)  ¬G1   F= ¬(X1X2)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2DD1  G1= ¬(X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X3 +X1X2)  ¬G1
2DD2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X1X4 +X1X2X3)  ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2DD3  G1= ¬(X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X3 +X1X2)  ¬G1
2DD4  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X3 +X2X4 +X1X4)  ¬G1   F= ¬(X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2DD5  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2DD6  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X1X4 +X1X2X3)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2DD7  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X1X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2DD8  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X1X4 +X1X2)  ¬G1   F= ¬(X1X2X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2DD9  G1= ¬(X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X3 +X1X2X4)  ¬G1
2DDA  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X1X4 +X1X2)  ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2DDB  G1= ¬(X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X3 +X1X2X4)  ¬G1
2DDC  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X1X4 +X1X2)  ¬G1   F= ¬(X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2DDD  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3)  ¬G1
2DDE  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X1X4 +X1X2)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2DDF  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X1X4 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2DE0  G1= ¬(X4 +X1 +X3 +X2)   G2= ¬(X2X4 +X1)  ¬G1   F= ¬(X1X3X4 +X1X2)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)  ¬G1
2DE1  G1= ¬(X3 +X2 +X1)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X2)  ¬G1
2DE2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X1X4 +X1X3)  ¬G1   F= ¬(X1X3X4 +X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2DE3  G1= ¬(X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X2)  ¬G1
2DE4  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X1X4 +X1X3)  ¬G1   F= ¬(X1X3X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2DE5  G1= ¬(X3 +X2 +X1)   G2= ¬(X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X2)  ¬G1
2DE6  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X1X4 +X1X3)  ¬G1   F= ¬(X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2DE7  G1= ¬(X3 +X2 +X1)   G2= ¬(X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X2)  ¬G1
2DE8  G1= ¬(X4 +X1 +X3 +X2)   G2= ¬(X2X4 +X1)  ¬G1   F= ¬(X1X3X4 +X1X2X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)  ¬G1
2DE9  G1= ¬(X3 +X2 +X1)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X2X4)  ¬G1
2DEA  G1= ¬(X4 +X1 +X3 +X2)   G2= ¬(X2X4 +X1)  ¬G1   F= ¬(X1X3X4 +X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)  ¬G1
2DEB  G1= ¬(X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X2X4)  ¬G1
2DEC  G1= ¬(X4 +X1 +X3 +X2)   G2= ¬(X2X4 +X1)  ¬G1   F= ¬(X1X3X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)  ¬G1
2DED  G1= ¬(X3 +X2 +X1)   G2= ¬(X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)  ¬G1
2DEE  G1= ¬(X4 +X1 +X3 +X2)   G2= ¬(X2X4 +X1)  ¬G1   F= ¬(X1X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)  ¬G1
2DEF  G1= ¬(X3 +X2 +X1)   G2= ¬(X2X4 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X2)  ¬G1
2DF0  G1= ¬(X4 +X1 +X3 +X2)   G2= ¬(X2X4 +X1)  ¬G1   F= ¬(X1X2)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)  ¬G1
2DF1  G1= ¬(X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X2)  ¬G1
2DF2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X1X4 +X1X3)  ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2DF3  G1= ¬(X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X3 +X1X2)  ¬G1
2DF4  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X1X4 +X1X3)  ¬G1   F= ¬(X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2DF5  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X2)  ¬G1
2DF6  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X1X4 +X1X3)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2DF7  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X1X4 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2DF8  G1= ¬(X4 +X1 +X3 +X2)   G2= ¬(X2X4 +X1)  ¬G1   F= ¬(X1X2X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)  ¬G1
2DF9  G1= ¬(X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X2X4)  ¬G1
2DFA  G1= ¬(X4 +X1 +X3 +X2)   G2= ¬(X2X4 +X1)  ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)  ¬G1
2DFB  G1= ¬(X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X3 +X1X2X4)  ¬G1
2DFC  G1= ¬(X4 +X1 +X3 +X2)   G2= ¬(X2X4 +X1)  ¬G1   F= ¬(X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)  ¬G1
2DFD  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
2DFE  G1= ¬(X4 +X1 +X3 +X2)   G2= ¬(X2X4 +X1)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)  ¬G1
2DFF  G1= ¬(X4 +X1 +X3 +X2)   G2= ¬(X2X4 +X1)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)  ¬G1
2EE0  G1= ¬(X3 +X2 +X1)   F= ¬(X3X4 +X1X2)  ¬G1
2EE1  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)  ¬G1
2EE2  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3 +X2X4 +X1X4)  ¬G1   F= ¬(X3X4 +X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
2EE3  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)  ¬G1
2EE4  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3 +X2X4 +X1X4)  ¬G1   F= ¬(X3X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
2EE5  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)  ¬G1
2EE6  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3 +X2X4 +X1X4)  ¬G1   F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
2EE7  G1= ¬(X3 +X2 +X1)   G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)  ¬G1
2EE8  G1= ¬(X3 +X2 +X1)   F= ¬(X3X4 +X1X2X4 +X1X2X3)  ¬G1
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2EE9  G1= ¬(X3 +X2 +X1)    G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2X4 +X1X2X3)  ¬G1
2EEA  G1= ¬(X3 +X2 +X1)    F= ¬(X3X4 +X1X2X4)  ¬G1
2EEB  G1= ¬(X3 +X2 +X1)    G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2X4 +X1X2X3)  ¬G1
2EEC  G1= ¬(X3 +X2 +X1)    F= ¬(X3X4 +X1X2X3)  ¬G1
2EED  G1= ¬(X3 +X2 +X1)    G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2X4 +X1X2X3)  ¬G1
2EEE  G1= ¬(X3 +X2 +X1)    F= ¬(X3X4)  ¬G1
2EEF  G1= ¬(X3 +X2 +X1)    G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)  ¬G1
2EF0  G1= ¬(X4 +X2 +X1 +X3)    G2= ¬(X2 +X1)  ¬G1   F= ¬(X2X3X4 +X1X2)  ¬G1 ¬G2+ ¬(X4 +X2 +X1)  ¬G1
2EF1  G1= ¬(X3 +X2 +X1)    G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)  ¬G1
2EF2  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X4 +X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X2X3X4 +X1X2X4)  ¬G1 ¬G2
       + ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2EF3  G1= ¬(X3 +X2 +X1)    G2= ¬(X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X3 +X1X2)  ¬G1
2EF4  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X4 +X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X2X3X4 +X1X2X3)  ¬G1 ¬G2
       + ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2EF5  G1= ¬(X3 +X2 +X1)    G2= ¬(X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X2)  ¬G1
2EF6  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X4 +X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2EF7  G1= ¬(X3 +X2 +X1)    G2= ¬(X1X4 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X3 +X1X2)  ¬G1
2EF8  G1= ¬(X4 +X2 +X1 +X3)    G2= ¬(X2 +X1)  ¬G1   F= ¬(X2X3X4 +X1X2X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X2 +X1)  ¬G1
2EF9  G1= ¬(X3 +X2 +X1)    G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2X4 +X1X2X3)  ¬G1
2EFA  G1= ¬(X4 +X2 +X1 +X3)    G2= ¬(X2 +X1)  ¬G1   F= ¬(X2X3X4 +X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X2 +X1)  ¬G1
2EFB  G1= ¬(X3 +X2 +X1)    G2= ¬(X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X3 +X1X2X4)  ¬G1
2EFC  G1= ¬(X4 +X2 +X1 +X3)    G2= ¬(X2 +X1)  ¬G1   F= ¬(X2X3X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X2 +X1)  ¬G1
2EFD  G1= ¬(X3 +X2 +X1)    G2= ¬(X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X2X3)  ¬G1
2EFE  G1= ¬(X4 +X2 +X1 +X3)    G2= ¬(X2 +X1)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X2 +X1)  ¬G1
2EFF  G1= ¬(X1 +X3 +X2)    G2= ¬(X1)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1)  ¬G1
2FF0  G1= ¬(X4 +X2 +X1 +X3)    G2= ¬(X2 +X1)  ¬G1   F= ¬(X1X2)  ¬G1 ¬G2+ ¬(X4 +X2 +X1)  ¬G1
2FF1  G1= ¬(X3 +X2 +X1)    G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)  ¬G1
2FF2  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X4 +X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2FF3  G1= ¬(X3 +X2 +X1)    G2= ¬(X2X3 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X3 +X1X2)  ¬G1
2FF4  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X4 +X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2FF5  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X4 +X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2)  ¬G1
2FF6  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X4 +X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2FF7  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X4 +X2X3 +X1X4 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
2FF8  G1= ¬(X4 +X2 +X1 +X3)    G2= ¬(X2 +X1)  ¬G1   F= ¬(X1X2X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X2 +X1)  ¬G1
2FF9  G1= ¬(X3 +X2 +X1)    G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2X4 +X1X2X3)  ¬G1
2FFA  G1= ¬(X4 +X2 +X1 +X3)    G2= ¬(X2 +X1)  ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X4 +X2 +X1)  ¬G1
2FFB  G1= ¬(X3 +X2 +X1)    G2= ¬(X2X3 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X3 +X1X2X4)  ¬G1
2FFC  G1= ¬(X4 +X2 +X1 +X3)    G2= ¬(X2 +X1)  ¬G1   F= ¬(X1X2X3)  ¬G1 ¬G2+ ¬(X4 +X2 +X1)  ¬G1
2FFD  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X4 +X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1
2FFE  G1= ¬(X4 +X2 +X1 +X3)    G2= ¬(X2 +X1)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X4 +X2 +X1)  ¬G1
2FFF  G1= ¬(X4 +X2 +X1 +X3)    G2= ¬(X2 +X1)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2 +X1)  ¬G1
3000  G1= ¬(X2 +X1 +X3)    F= ¬(X2 +X1)  ¬G1
3003  G1= ¬(X2 +X1 +X3)    G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2 +X1)  ¬G1
3300  G1= ¬(X1 +X3)    F= ¬(X1)  ¬G1
3303  G1= ¬(X2 +X1 +X3)    G2= ¬(X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2 +X1)  ¬G1
3330  G1= ¬(X1X2 +X3)    F= ¬(X1X2)  ¬G1
333C  G1= ¬(X3 +X1X2)    F= ¬(X1X2X3)  ¬G1
333F  G1= ¬(X3 +X1X2)    F=  ¬G1
33C0  G1= ¬(X3 +X1)    F= ¬(X1X3 +X1X2)  ¬G1
33C3  G1= ¬(X2 +X3 +X1)    G2= ¬(X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2 +X1X3)  ¬G1
3C00  G1= ¬(X1 +X3 +X2)    F= ¬(X2X3 +X1)  ¬G1
3C03  G1= ¬(X1 +X3 +X2)    G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3 +X1)  ¬G1
3CC0  G1= ¬(X3 +X2 +X1)    F= ¬(X2X3 +X1X3 +X1X2)  ¬G1
3CC1  G1= ¬(X3 +X2 +X1)    G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3 +X1X2)  ¬G1
3CC2  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)  ¬G1   F= ¬(X2X3X4 +X1X3X4 +X1X2X4)  ¬G1 ¬G2
       + ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
3CC3  G1= ¬(X3 +X2 +X1)    G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3 +X1X2)  ¬G1
3CC4  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3 +X2X4 +X1X4)  ¬G1   F= ¬(X2X3 +X1X3)  ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)  ¬G1
3CC5  G1= ¬(X3 +X2 +X1)    G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3 +X1X2)  ¬G1
3CC6  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)  ¬G1   F= ¬(X2X3X4 +X1X3X4)  ¬G1 ¬G2
       + ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
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3CC7  G1= ¬(X3 +X2 +X1)     G2= ¬(X1X2X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3 +X1X2)  ¬G1
3CC8  G1= ¬(X3 +X2 +X1)       F= ¬(X2X3 +X1X3 +X1X2X4)   ¬G1
3CC9  G1= ¬(X3 +X2 +X1)     G2= ¬(X1X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3 +X1X2X4)   ¬G1
3CCA  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X4 +X1X4 +X1X2)   ¬G1    F= ¬(X2X3X4 +X1X3X4 +X1X2X4)   ¬G1 ¬G2
          + ¬(X4 +X2X3 +X1X3 +X1X2)   ¬G1
3CCB  G1= ¬(X3 +X2 +X1)     G2= ¬(X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3 +X1X2X4)   ¬G1
3CCD  G1= ¬(X3 +X2 +X1)     G2= ¬(X1X2X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3 +X1X2X4)   ¬G1
3CCE  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X4 +X1X4 +X1X2)   ¬G1    F= ¬(X2X3X4 +X1X3X4)   ¬G1 ¬G2
          + ¬(X4 +X2X3 +X1X3 +X1X2)   ¬G1
3CD4  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3 +X3X4 +X2X4 +X1X4)   ¬G1    F= ¬(X2X3)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)   ¬G1
3CD5  G1= ¬(X3 +X2 +X1)     G2= ¬(X1X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X4 +X1X3 +X1X2)   ¬G1
3CD6  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)   ¬G1    F= ¬(X2X3X4)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)   ¬G1
3CD7  G1= ¬(X3 +X2 +X1)     G2= ¬(X1X4 +X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X4 +X1X3 +X1X2)   ¬G1
3CD8  G1= ¬(X4 +X2 +X3 +X1)    G2= ¬(X3X4 +X2 +X1X4)   ¬G1    F= ¬(X2X3 +X1X2X4)   ¬G1 ¬G2+ ¬(X4 +X2 +X1X3)   ¬G1
3CD9  G1= ¬(X3 +X2 +X1)     G2= ¬(X1X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3 +X1X2X4)   ¬G1
3CDA  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X4 +X1X4 +X1X2)   ¬G1    F= ¬(X2X3X4 +X1X2X4)   ¬G1 ¬G2
          + ¬(X4 +X2X3 +X1X3 +X1X2)   ¬G1
3CDB  G1= ¬(X3 +X2 +X1)     G2= ¬(X1X3X4 +X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3 +X1X2X4)   ¬G1
3CDC  G1= ¬(X4 +X2 +X3 +X1)    G2= ¬(X3X4 +X2 +X1X4)   ¬G1    F= ¬(X2X3)   ¬G1 ¬G2+ ¬(X4 +X2 +X1X3)   ¬G1
3CDD  G1= ¬(X3 +X2 +X1)     G2= ¬(X1X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X4 +X1X3)   ¬G1
3CDE  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X4 +X1X4 +X1X2)   ¬G1    F= ¬(X2X3X4)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)   ¬G1
3CDF  G1= ¬(X3 +X2 +X1)     G2= ¬(X1X4 +X1X2)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X4 +X1X3 +X1X2)   ¬G1
3CE8  G1= ¬(X3 +X2 +X1)       F= ¬(X2X3 +X1X3X4 +X1X2X4)   ¬G1
3CE9  G1= ¬(X3 +X2 +X1)     G2= ¬(X1X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3X4 +X1X2X4)   ¬G1
3CEA  G1= ¬(X4 +X1 +X3 +X2)    G2= ¬(X3X4 +X2X4 +X1)   ¬G1    F= ¬(X2X3X4 +X1X3X4 +X1X2X4)   ¬G1 ¬G2
          + ¬(X4 +X2X3 +X1)   ¬G1
3CEB  G1= ¬(X3 +X2 +X1)     G2= ¬(X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3X4 +X1X2X4)   ¬G1
3CEC  G1= ¬(X3 +X2 +X1)       F= ¬(X2X3 +X1X3X4)   ¬G1
3CED  G1= ¬(X3 +X2 +X1)     G2= ¬(X1X2X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3X4 +X1X2X4)   ¬G1
3CEE  G1= ¬(X4 +X1 +X3 +X2)    G2= ¬(X3X4 +X2X4 +X1)   ¬G1    F= ¬(X2X3X4 +X1X3X4)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)   ¬G1
3CEF  G1= ¬(X3 +X2 +X1)     G2= ¬(X1X2)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3X4 +X1X2)   ¬G1
3CFD  G1= ¬(X3 +X2 +X1)     G2= ¬(X1X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X4)   ¬G1
3CFE  G1= ¬(X4 +X1 +X3 +X2)    G2= ¬(X3X4 +X2X4 +X1)   ¬G1    F= ¬(X2X3X4)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)   ¬G1
3DD4  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X2X3 +X3X4 +X2X4 +X1X4)   ¬G1    F= ¬(X1X2X3)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)   ¬G1
3DD5  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X4 +X1X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)   ¬G1
3DD6  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)   ¬G1    F= ¬(X1X2X3X4)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)   ¬G1
3DD7  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)   ¬G1
3DD8  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X4 +X1X4 +X1X2)   ¬G1    F= ¬(X1X2X4 +X1X2X3)   ¬G1 ¬G2
          + ¬(X4 +X2X3 +X1X3 +X1X2)   ¬G1
3DD9  G1= ¬(X3 +X2 +X1)     G2= ¬(X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X3 +X1X2X4)   ¬G1
3DDA  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X4 +X1X4 +X1X2)   ¬G1    F= ¬(X1X2X4)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)   ¬G1
3DDB  G1= ¬(X3 +X2 +X1)     G2= ¬(X3X4 +X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X3 +X1X2X4)   ¬G1
3DDC  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X4 +X1X4 +X1X2)   ¬G1    F= ¬(X1X2X3)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)   ¬G1
3DDD  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X4 +X1X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3)   ¬G1
3DDE  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X4 +X1X4 +X1X2)   ¬G1    F= ¬(X1X2X3X4)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)   ¬G1
3DDF  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X4 +X1X4 +X1X2)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)   ¬G1
3DE8  G1= ¬(X4 +X1 +X3 +X2)    G2= ¬(X3X4 +X2X4 +X1)   ¬G1    F= ¬(X1X3X4 +X1X2X4 +X1X2X3)   ¬G1 ¬G2
          + ¬(X4 +X2X3 +X1)   ¬G1
3DE9  G1= ¬(X3 +X2 +X1)     G2= ¬(X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3X4 +X1X2X4)   ¬G1
3DEA  G1= ¬(X4 +X1 +X3 +X2)    G2= ¬(X3X4 +X2X4 +X1)   ¬G1    F= ¬(X1X3X4 +X1X2X4)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)   ¬G1
3DEB  G1= ¬(X3 +X2 +X1)     G2= ¬(X2X3X4 +X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3X4 +X1X2X4)   ¬G1
3DEC  G1= ¬(X4 +X1 +X3 +X2)    G2= ¬(X3X4 +X2X4 +X1)   ¬G1    F= ¬(X1X3X4 +X1X2X3)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)   ¬G1
3DED  G1= ¬(X3 +X2 +X1)     G2= ¬(X2X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X3X4)   ¬G1
3DEE  G1= ¬(X4 +X1 +X3 +X2)    G2= ¬(X3X4 +X2X4 +X1)   ¬G1    F= ¬(X1X3X4)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)   ¬G1
3DEF  G1= ¬(X3 +X2 +X1)     G2= ¬(X2X4 +X1X2)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X2X3 +X1X3X4 +X1X2)   ¬G1
3DFC  G1= ¬(X4 +X1 +X3 +X2)    G2= ¬(X3X4 +X2X4 +X1)   ¬G1    F= ¬(X1X2X3)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)   ¬G1
3DFD  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X4 +X1X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2X3)   ¬G1
3DFE  G1= ¬(X4 +X1 +X3 +X2)    G2= ¬(X3X4 +X2X4 +X1)   ¬G1    F= ¬(X1X2X3X4)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)   ¬G1
3DFF  G1= ¬(X4 +X1 +X3 +X2)    G2= ¬(X3X4 +X2X4 +X1)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)   ¬G1
3EE8  G1= ¬(X3 +X2 +X1)       F= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)   ¬G1
3EE9  G1= ¬(X3 +X2 +X1)     G2= ¬(X1X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)   ¬G1
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3EEA  G1= ¬(X3 +X2 +X1)     F= ¬(X2X3X4 +X1X3X4 +X1X2X4)  ¬G1
3EEB  G1= ¬(X3 +X2 +X1)    G2= ¬(X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)   ¬G1
3EEC  G1= ¬(X3 +X2 +X1)     F= ¬(X2X3X4 +X1X3X4 +X1X2X3)   ¬G1
3EED  G1= ¬(X3 +X2 +X1)    G2= ¬(X1X2X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)   ¬G1
3EEE  G1= ¬(X3 +X2 +X1      F= ¬(X2X3X4 +X1X3X4)    G1
3EEF  G1= ¬(X3 +X2 +X1)    G2= ¬(X1X2)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3X4 +X1X2)   ¬G1
3EFC  G1= ¬(X3 +X2 +X1)     F= ¬(X2X3X4 +X1X2X3)   ¬G1
3EFD  G1= ¬(X3 +X2 +X1)    G2= ¬(X1X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X4 +X1X2X3)   ¬G1
3EFE  G1= ¬(X3 +X2 +X1)     F= ¬(X2X3X4)   ¬G1
3EFF  G1= ¬(X1 +X3 +X2)    G2= ¬(X1)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1)   ¬G1
3F00  G1= ¬(X1 +X3 +X2)     F= ¬(X1)   ¬G1
3F03  G1= ¬(X1 +X3 +X2)    G2= ¬(X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1)   ¬G1
3F30  G1= ¬(X3 +X2)     F= ¬(X1X2)   ¬G1
3F33  G1= ¬(X3 +X1 +X2)    G2= ¬(X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1)   ¬G1
3F3C  G1= ¬(X3 +X2)     F= ¬(X1X2X3)   ¬G1
3F3F  G1= ¬(X3 +X2)     F=  ¬G1
3FC0  G1= ¬(X3 +X2 +X1)     F= ¬(X1X3 +X1X2)   ¬G1
3FC3  G1= ¬(X3 +X2 +X1)    G2= ¬(X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3 +X1X2)   ¬G1
3FF0  G1= ¬(X3 +X2 +X1)     F= ¬(X1X2)   ¬G1
3FF3  G1= ¬(X3 +X2 +X1)    G2= ¬(X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1X2)   ¬G1
3FFC  G1= ¬(X3 +Y2 +X1)     F= ¬(X1X2X3)   ¬G1
3FFD  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X2X4 +X1X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)   ¬G1
3FFE  G1= ¬(X3 +X2 +X1)     F= ¬(X1X2X3X4)   ¬G1
3FFF  G1= ¬(X3 +X2 +X1)     F=  ¬G1
6880  G1= ¬(X4 +X3 +X2 +X1)     F= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   ¬G1
6881  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   ¬G1
6882  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X4 +X1X2X3)   ¬G1    F= ¬(X3X4 +X2X4 +X1X4)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)   ¬G1
6883  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   ¬G1
6886  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X1X2X4 +X1X2X3)   ¬G1    F= ¬(X3X4)   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   ¬G1
6887  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X2X4 +X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   ¬G1
6888  G1= ¬(X4 +X3 +X2 +X1)     F= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)   ¬G1
6889  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)   ¬G1
688A  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X4 +X1X2)   ¬G1    F= ¬(X3X4 +X2X4 +X1X4)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)   ¬G1
688B  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)   ¬G1
688E  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X1X2)   ¬G1    F= ¬(X3X4)   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   ¬G1
688F  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X2)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   ¬G1
6896  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)   ¬G1    F= ¬(X2X3X4)   ¬G1 ¬G2
        + ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   ¬G1
6897  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X3X4 +X1X2X4 +X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   ¬G1
6898  G1= ¬(X2 +X4 +X3 +X1)    G2= ¬(X2 +X1X3X4)   ¬G1    F= ¬(X2X4 +X2X3)   ¬G1 ¬G2+ ¬(X3X4 +X2 +X1X4 +X1X3)   ¬G1
6899  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)   ¬G1
689A  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X4 +X1X3X4 +X1X2)   ¬G1    F= ¬(X2X4)   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   ¬G1
689B  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X3X4 +X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)   ¬G1
689E  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3X4 +X1X3X4 +X1X2)   ¬G1    F= ¬(X2X3X4)   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   ¬G1
689F  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X3X4 +X1X2)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   ¬G1
68A8  G1= ¬(X4 +X3 +X2 +X1)     F= ¬(X3X4 +X2X4 +X2X3 +X1X4)   ¬G1
68A9  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4)   ¬G1
68AA  G1= ¬(X4 +X1 +X3 +X2)    G2= ¬(X4 +X1)   ¬G1    F= ¬(X3X4 +X2X4 +X1X4)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)   ¬G1
68AB  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4)   ¬G1
68AC  G1= ¬(X3 +X4 +X2 +X1)    G2= ¬(X4 +X1X2)   ¬G1    F= ¬(X3X4 +X2X3)   ¬G1 ¬G2+ ¬(X3 +X2X4 +X1X4 +X1X2)   ¬G1
68AD  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X2X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4)   ¬G1
68AE  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X3X4 +X1X3 +X1X2)   ¬G1    F= ¬(X3X4)   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   ¬G1
68AF  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X2)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X2)   ¬G1
68BC  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3 +X1X3 +X1X2)   ¬G1    F= ¬(X2X3)   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   ¬G1
68BD  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X3X4 +X1X2X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4)   ¬G1
68BE  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X2X3X4 +X1X3 +X1X2)   ¬G1    F= ¬(X2X3X4)   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   ¬G1
68BF  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X3 +X1X2)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   ¬G1
68E8  G1= ¬(X4 +X3 +X2 +X1)     F= ¬(X3X4 +X2X4 +X2X3)   ¬G1
68E9  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)   ¬G1
68EA  G1= ¬(X4 +X1 +X3 +X2)    G2= ¬(X4 +X1)   ¬G1    F= ¬(X3X4 +X2X4)   ¬G1 ¬G2+ ¬(X4 +X2X3 +X1)   ¬G1
68EB  G1= ¬(X4 +X3 +X2 +X1)    G2= ¬(X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)   ¬G1
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66EE   G1= ¬(X1 +X4 +X3 +X2)   G2= ¬(X3X4 +X1)  ¬G1   F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1)  ¬G1
66EF   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X2)  ¬G1
66FE   G1= ¬(X1 +X4 +X3 +X2)   G2= ¬(X2X3X4 +X1)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1)  ¬G1
66FF   G1= ¬(X1 +X4 +X3 +X2)   G2= ¬(X1)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1)  ¬G1
6996   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2
           + ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)  ¬G1
6997   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)  ¬G1
6998   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2)  ¬G1   F= ¬(X1X2X4 +X1X2X3)  ¬G1 ¬G2
           + ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)  ¬G1
6999   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)  ¬G1
699A   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2)  ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)  ¬G1
699B   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)  ¬G1
699E   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)  ¬G1
699F   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)  ¬G1
69A8   G1= ¬(X1 +X4 +X3 +X2)   G2= ¬(X2X3X4 +X1)  ¬G1   F= ¬(X1X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1)  ¬G1
69A9   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4)  ¬G1
69AA   G1= ¬(X1 +X4 +X3 +X2)   G2= ¬(X2X3X4 +X1)  ¬G1   F= ¬(X1X4)  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1)  ¬G1
69AB   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4)  ¬G1
69AC   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3 +X1X2)  ¬G1   F= ¬(X1X3X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2) ¬G1
69AD   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4)  ¬G1
69AE   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3 +X1X2)  ¬G1   F= ¬(X1X3X4)  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)  ¬G1
69AF   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X2)  ¬G1
69BC   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3 +X1X2)  ¬G1   F= ¬(X1X2X3)  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)  ¬G1
69BD   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4)  ¬G1
69BE   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3 +X1X2)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)  ¬G1
69BF   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)  ¬G1
69E8   G1= ¬(X1 +X4 +X3 +X2)   G2= ¬(X2X3X4 +X1)  ¬G1   F= ¬(X1X3X4 +X1X2X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1)  ¬G1
69E9   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)  ¬G1
69EA   G1= ¬(X1 +X4 +X3 +X2)   G2= ¬(X2X3X4 +X1)  ¬G1   F= ¬(X1X3X4 +X1X2X4)  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1)  ¬G1
69EB   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)  ¬G1
69EE   G1= ¬(X1 +X4 +X3 +X2)   G2= ¬(X2X3X4 +X1)  ¬G1   F= ¬(X1X3X4)  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1)  ¬G1
69EF   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X2)  ¬G1
69FE   G1= ¬(X1 +X4 +X3 +X2)   G2= ¬(X2X3X4 +X1)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1)  ¬G1
69FF   G1= ¬(X1 +X4 +X3 +X2)   G2= ¬(X2X3X4 +X1)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1)  ¬G1
6AA8   G1= ¬(X4 +X3 +X2 +X1)    F= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)  ¬G1
6AA9   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X4 +X1X2X3)  ¬G1
6AAA   G1= ¬(X4 +X3 +X2 +X1)    F= ¬(X3X4 +X2X4 +X1X4)  ¬G1
6AAB   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X4 +X1X2X3)  ¬G1
6AAC   G1= ¬(X3 +X4 +X2 +X1)   G2= ¬(X3 +X1X2)  ¬G1   F= ¬(X3X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X3 +X2X4 +X1X4 +X1X2)  ¬G1
6AAD   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X4 +X1X2X3)  ¬G1
6AAE   G1= ¬(X3 +X4 +X2 +X1)   G2= ¬(X3 +X1X2)  ¬G1   F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X3 +X2X4 +X1X4 +X1X2)  ¬G1
6AAF   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X4 +X1X2)  ¬G1
6ABC   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3 +X1X2)  ¬G1   F= ¬(X2X3X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2) ¬G1
6ABD   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X4 +X1X2X3)  ¬G1
6ABE   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3 +X1X2)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)  ¬G1
6ABF   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X3 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X4 +X1X3 +X1X2)  ¬G1
6AC0   G1= ¬(X4 +X3 +X2 +X1)    F= ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
6AC1   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
6AC2   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X4 +X2X3)  ¬G1   F= ¬(X3X4 +X2X4)  ¬G1 ¬G2+ ¬(X4 +X2X3 +X1X3 +X1X2)  ¬G1
6AC3   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
6AC6   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X4)  ¬G1   F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)  ¬G1
6AC7   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
6AC8   G1= ¬(X4 +X3 +X2 +X1)    F= ¬(X3X4 +X2X4 +X1X3)  ¬G1
6AC9   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)  ¬G1
6ACA   G1= ¬(X4 +X2 +X3 +X1)   G2= ¬(X4 +X2)  ¬G1   F= ¬(X3X4 +X2X4)  ¬G1 ¬G2+ ¬(X4 +X2 +X1X3)  ¬G1
6ACB   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)  ¬G1
6ACE   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X3X4 +X2X3 +X1X4 +X1X2)  ¬G1   F= ¬(X3X4)  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)  ¬G1
6ACF   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
6AD4   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4)  ¬G1   F= ¬(X2X3X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)  ¬G1
6AD5   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X4 +X1X3 +X1X2)  ¬G1
6AD6   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)  ¬G1
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[illegible] G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2 +X1X3)   ¬G1   F= ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X4 +X1X3 +X1X2)   ¬G1
[illegible] G1= ¬(X2 +X4 +X3 +X1)   G2= ¬(X2 +X1X4)   ¬G1   F= ¬(X2X4 +X1X2X3)   ¬G1 ¬G2+ ¬(X3X4 +X2 +X1X4 +X1X3)   ¬G1
[illegible] G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X3X4)   ¬G1   F= ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)   ¬G1
[illegible] G1= ¬(X2 +X4 +X3 +X1)   G2= ¬(X2 +X1X4)   ¬G1   F= ¬(X2X4)   ¬G1 ¬G2+ ¬(X3X4 +X2 +X1X4 +X1X3)   ¬G1
[illegible] G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X3X4 +X1X2X3)   ¬G1   F= ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)   ¬G1
[illegible] G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4 +X1X2)   ¬G1   F= ¬(X2X3X4 +X1X2X3)   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2) ¬G1
[illegible] G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X4)   ¬G1   F= ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X4 +X1X3)   ¬G1
[illegible] G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4 +X1X2)   ¬G1   F= ¬(X2X3X4)   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   ¬G1
5ADF   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X4 +X1X2)   ¬G1   F= ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X4 +X1X3 +X1X2)   ¬G1
5AE8   G1= ¬(X4 +X3 +X2 +X1)   F= ¬(X3X4 +X2X4 +X1X2X3)   ¬G1
5AE9   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X3X4)   ¬G1   F= ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)   ¬G1
5AEA   G1= ¬(X4 +X3 +X2 +X1)   F= ¬(X3X4 +X2X4)   ¬G1
5AEB   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X3)   ¬G1   F= ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)   ¬G1
5AEC   G1= ¬(X3 +X1 +X4 +X2)   G2= ¬(X3 +X1)   ¬G1   F= ¬(X3X4 +X1X2X3)   ¬G1 ¬G2+ ¬(X3 +X2X4 +X1)   ¬G1
5AED   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X4)   ¬G1   F= ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)   ¬G1
5AEE   G1= ¬(X3 +X1 +X4 +X2)   G2= ¬(X3 +X1)   ¬G1   F= ¬(X3X4)   ¬G1 ¬G2+ ¬(X3 +X2X4 +X1)   ¬G1
5AEF   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2)   ¬G1   F= ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2)   ¬G1
5AFC   G1= ¬(X1 +X4 +X3 +X2)   G2= ¬(X2X3 +X1)   ¬G1   F= ¬(X2X3X4 +X1X2X3)   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1)   ¬G1
5AFD   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X4)   ¬G1   F= ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X4 +X1X2X3)   ¬G1
5AFE   G1= ¬(X1 +X4 +X3 +X2)   G2= ¬(X2X3 +X1)   ¬G1   F= ¬(X2X3X4)   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1)   ¬G1
5AFF   G1= ¬(X1 +X4 +X3 +X2)   G2= ¬(X1)   ¬G1   F= ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1)   ¬G1
5B3C   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3 +X1X2)   ¬G1   F= ¬(X1X2X3)   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   ¬G1
5B3D   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X4)   ¬G1   F= ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X4 +X1X2X3)   ¬G1
5B3E   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3 +X1X2)   ¬G1   F= ¬(X1X2X3X4)   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   ¬G1
5B3F   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3 +X1X2)   ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   ¬G1
5BD6   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4)   ¬G1   F= ¬(X1X2X3X4)   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   ¬G1
5BD7   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4)   ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   ¬G1
5BD8   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4 +X1X2)   ¬G1   F= ¬(X1X2X4 +X1X2X3)   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2) ¬G1
5BD9   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4)   ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)   ¬G1
5BDA   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4 +X1X2)   ¬G1   F= ¬(X1X2X4)   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   ¬G1
5BDB   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3X4)   ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X3)   ¬G1
5BDE   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4 +X1X2)   ¬G1   F= ¬(X1X2X3X4)   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   ¬G1
5BDF   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X4 +X1X2)   ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   ¬G1
5BE8   G1= ¬(X1 +X4 +X3 +X2)   G2= ¬(X2X3 +X1)   ¬G1   F= ¬(X1X3X4 +X1X2X4 +X1X2X3)   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1)   ¬G1
5BE9   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4)   ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)   ¬G1
5BEA   G1= ¬(X1 +X4 +X3 +X2)   G2= ¬(X2X3 +X1)   ¬G1   F= ¬(X1X3X4 +X1X2X4)   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1)   ¬G1
5BEB   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3)   ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)   ¬G1
5BEC   G1= ¬(X1 +X4 +X3 +X2)   G2= ¬(X2X3 +X1)   ¬G1   F= ¬(X1X3X4 +X1X2X3)   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1)   ¬G1
5BED   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X2X4)   ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)   ¬G1
5BEE   G1= ¬(X1 +X4 +X3 +X2)   G2= ¬(X2X3 +X1)   ¬G1   F= ¬(X1X3X4)   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1)   ¬G1
5BEF   G1= ¬(X4 +X3 +X2 +X1)   G2- ¬(X2X3 +X1X2)   ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X2)   ¬G1
5BFC   G1= ¬(X1 +X4 +X3 +X2)   G2= ¬(X2X3 +X1)   ¬G1   F= ¬(X1X2X3)   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1)   ¬G1
5BFD   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X4)   ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X4 +X1X2X3)   ¬G1
5BFE   G1= ¬(X1 +X4 +X3 +X2)   G2= ¬(X2X3 +X1)   ¬G1   F= ¬(X1X2X3X4)   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1)   ¬G1
5BFF   G1= ¬(X1 +X4 +X3 +X2)   G2= ¬(X2X3 +X1)   ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1)   ¬G1
5EE0   G1= ¬(X4 +X3 +X2 +X1)   F= ¬(X3X4 +X1X2)   ¬G1
5EE1   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X3X4)   ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)   ¬G1
5EE2   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X4 +X3)   ¬G1   F= ¬(X3X4 +X1X2X4)   ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)   ¬G1
5EE3   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X3)   ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)   ¬G1
5EE6   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X4 +X3)   ¬G1   F= ¬(X3X4)   ¬G1 ¬G2+ ¬(X4 +X3 +X1X2)   ¬G1
5EE7   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X4 +X1X2X3)   ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)   ¬G1
5EE8   G1= ¬(X4 +X3 +X2 +X1)   F= ¬(X3X4 +X1X2X4 +X1X2X3)   ¬G1
5EE9   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X3X4)   ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2X4 +X1X2X3)   ¬G1
5EEA   G1= ¬(X4 +X3 +X2 +X1)   F= ¬(X3X4 +X1X2X4)   ¬G1
5EEB   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X3)   ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2X4 +X1X2X3)   ¬G1
5EEE   G1= ¬(X4 +X3 +X2 +X1)   F= ¬(X3X4)   ¬G1
5EEF   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2)   ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)   ¬G1
5EF2   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X4 +X1X3)   ¬G1   F= ¬(X2X3X4 +X1X2X4)   ¬G1 ¬G2
            + ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   ¬G1
5EF3   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X3)   ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X3 +X1X2)   ¬G1
5EF5   G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X4 +X1X3)   ¬G1   F= ¬(X2X3X4)   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2) ¬G1
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5EF7  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X4 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X3 +X1X2)  ¬G1
5EF8  G1= ¬(X2 +X1 +X4 +X3)   G2= ¬(X2 +X1)  ¬G1   F= ¬(X2X3X4 +X1X2X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X3X4 +X2 +X1)  ¬G1
5EF9  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2X4 +X1X2X3)  ¬G1
5EFA  G1= ¬(X2 +X1 +X4 +X3)   G2= ¬(X2 +X1)  ¬G1   F= ¬(X2X3X4 +X1X2X4)  ¬G1 ¬G2+ ¬(X3X4 +X2 +X1)  ¬G1
5EFB  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X3 +X1X2X4)  ¬G1
6EFE  G1= ¬(X2 +X1 +X4 +X3)   G2= ¬(X2 +X1)  ¬G1   F= ¬(X2X3X4)  ¬G1 ¬G2+ ¬(X3X4 +X2 +X1)  ¬G1
6EFF  G1= ¬(X1 +X4 +X3 +X2)   G2= ¬(X1)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1)  ¬G1
5FF6  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X4 +X1X3)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2) ¬G1
5FF7  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X4 +X2X3 +X1X4 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)  ¬G1
5FF8  G1= ¬(X2 +X1 +X4 +X3)   G2= ¬(X2 +X1)  ¬G1   F= ¬(X1X2X4 +X1X2X3)  ¬G1 ¬G2+ ¬(X3X4 +X2 +X1)  ¬G1
6FF9  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2X4 +X1X2X3)  ¬G1
6FFA  G1= ¬(X2 +X1 +X4 +X3)   G2= ¬(X2 +X1)  ¬G1   F= ¬(X1X2X4)  ¬G1 ¬G2+ ¬(X3X4 +X2 +X1)  ¬G1
6FFB  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X2X3 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X3 +X1X2X4)  ¬G1
6FFE  G1= ¬(X2 +X1 +X4 +X3)   G2= ¬(X2 +X1)  ¬G1   F= ¬(X1X2X3X4)  ¬G1 ¬G2+ ¬(X3X4 +X2 +X1)  ¬G1
6FFF  G1= ¬(X2 +X1 +X4 +X3)   G2= ¬(X2 +X1)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2 +X1)  ¬G1
7EE8  G1= ¬(X4 +X3 +X2 +X1)    F= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)  ¬G1
7EE9  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)  ¬G1
7EEA  G1= ¬(X4 +X3 +X2 +X1)    F= ¬(X2X3X4 +X1X3X4 +X1X2X4)  ¬G1
7EEB  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)  ¬G1
7EEE  G1= ¬(X4 +X3 +X2 +X1)    F= ¬(X2X3X4 +X1X3X4)  ¬G1
7EEF  G1= ¬(X4 +X3 +X2 +X1)   G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3X4 +X1X2)  ¬G1
7EFE  G1= ¬(X4 +X3 +X2 +X1)    F= ¬(X2X3X4)  ¬G1
7EFF  G1= ¬(X1 +X4 +X3 +X2)   G2= ¬(X1)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1)  ¬G1
7FFE  G1= ¬(X4 +X3 +X2 +X1)    F= ¬(X1X2X3X4)  ¬G1
7FFF  G1= ¬(X4 +X3 +X2 +X1)    F=  ¬G1
8000   F= ¬(X4 +X3 +X2 +X1)
8001  G1= ¬(X1X2X3X4)    F=  ¬G1+ ¬(X4 +X3 +X2 +X1)
8002  G1= ¬(X4 +X1X2X3)    F= ¬(X4)   ¬G1+ ¬(X4 +X3 +X2 +X1)
8003  G1= ¬(X1X2X3)    F=  ¬G1+ ¬(X4 +X3 +X2 +X1)
8006  G1= ¬(X3X4 +X1X2X4 +X1X2X3)    F= ¬(X3X4)   ¬G1+ ¬(X4 +X3 +X2 +X1)
8007  G1= ¬(X1X2X4 +X1X2X3)    F=  ¬G1+ ¬(X4 +X3 +X2 +X1)
8008  G1= ¬(X4 +X3 +X1X2)    F= ¬(X4 +X3)   ¬G1+ ¬(X4 +X3 +X2 +X1)
8009  G1= ¬(X4 +X3 +X1X2)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3)   ¬G1+ ¬(X4 +X3 +X2 +X1)
800A  G1= ¬(X4 +X1X2)    F= ¬(X4)   ¬G1+ ¬(X4 +X3 +X2 +X1)
800B  G1= ¬(X4 +X3 +X1X2)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3)   ¬G1+ ¬(X4 +X3 +X2 +X1)
800E  G1= ¬(X3X4 +X1X2)    F= ¬(X3X4)   ¬G1+ ¬(X4 +X3 +X2 +X1)
800F  G1= ¬(X1X2)    F=  ¬G1+ ¬(X4 +X3 +X2 +X1)
8015  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)    F= ¬(X2X3X4)   ¬G1+ ¬(X4 +X3 +X2 +X1)
8017  G1= ¬(X1X3X4 +X1X2X4 +X1X2X3)    F=  ¬G1+ ¬(X4 +X3 +X2 +X1)
8018  G1= ¬(X2X4 +X2X3 +X1X3X4 +X1X2)    F= ¬(X2X4 +X2X3)   ¬G1+ ¬(X4 +X3 +X2 +X1)
8019  G1= ¬(X4 +X3 +X1X2)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3)   ¬G1+ ¬(X4 +X3 +X2 +X1)
801A  G1= ¬(X2X4 +X1X3X4 +X1X2)    F= ¬(X2X4)   ¬G1+ ¬(X4 +X3 +X2 +X1)
801B  G1= ¬(X4 +X3 +X1X2)   G2= ¬(X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X3)   ¬G1+ ¬(X4 +X3 +X2 +X1)
801E  G1= ¬(X2X3X4 +X1X3X4 +X1X2)    F= ¬(X2X3X4)   ¬G1+ ¬(X4 +X3 +X2 +X1)
801F  G1= ¬(X1X3X4 +X1X2)    F=  ¬G1+ ¬(X4 +X3 +X2 +X1)
8028  G1= ¬(X4 +X2X3 +X1X3 +X1X2)    F= ¬(X4 +X2X3)   ¬G1+ ¬(X4 +X3 +X2 +X1)
8029  G1= ¬(X4 +X2X3 +X1X3 +X1X2)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3)   ¬G1+ ¬(X4 +X3 +X2 +X1)
802A  G1= ¬(X4 +X1X3 +X1X2)    F= ¬(X4)   ¬G1+ ¬(X4 +X3 +X2 +X1)
802B  G1= ¬(X4 +X2X3 +X1X3 +X1X2)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3)   ¬G1+ ¬(X4 +X3 +X2 +X1)
802C  G1= ¬(X3X4 +X2X3 +X1X3 +X1X2)    F= ¬(X3X4 +X2X3)   ¬G1+ ¬(X4 +X3 +X2 +X1)
802D  G1= ¬(X4 +X2X3 +X1X3 +X1X2)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3)   ¬G1+ ¬(X4 +X3 +X2 +X1)
802E  G1= ¬(X3X4 +X1X3 +X1X2)    F= ¬(X3X4)   ¬G1+ ¬(X4 +X3 +X2 +X1)
802F  G1= ¬(X4 +X2 +X1X3)   G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2)   ¬G1+ ¬(X4 +X3 +X2 +X1)
803C  G1= ¬(X2X3 +X1X3 +X1X2)    F= ¬(X2X3)   ¬G1+ ¬(X4 +X3 +X2 +X1)
803D  G1= ¬(X4 +X2X3 +X1X3 +X1X2)   G2= ¬(X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
       + ¬(X4 +X3 +X2 +X1)
803E  G1= ¬(X2X3X4 +X1X3 +X1X2)    F= ¬(X2X3X4)   ¬G1+ ¬(X4 +X3 +X2 +X1)
803F  G1= ¬(X1X3 +X1X2)    F=  ¬G1+ ¬(X4 +X3 +X2 +X1)
8068  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    F= ¬(X3X4 +X2X4 +X2X3)   ¬G1+ ¬(X4 +X3 +X2 +X1)
8069  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    G2= ¬(X1X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)  ¬G1
       + ¬(X4 +X3 +X2 +X1)
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806A   G1= ¬(X3X4 +X2X4 +X1X4 +X1X3 +X1X2)     F= ¬(X3X4 +X2X4)  ¬G1+ ¬(X4 +X3 +X2 +X1)
806B   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)  ¬G1
        + ¬(X4 +X3 +X2 +X1)
806E   G1= ¬(X3X4 +X1X4 +X1X3 +X1X2)     F= ¬(X3X4)  ¬G1+ ¬(X4 +X3 +X2 +X1)
806F   G1= ¬(X3X4 +X2 +X1X4 +X1X3)    G2= ¬(X1X2)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2)  ¬G1+ ¬(X4 +X3 +X2 +X1)
807E   G1= ¬(X2X3X4 +X1X4 +X1X3 +X1X2)     F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X3 +X2 +X1)
807F   G1= ¬(X1X4 +X1X3 +X1X2)     F=  ¬G1+ ¬(X4 +X3 +X2 +X1)
8081   G1= ¬(X1X2X3X4)     F=  ¬G1+ ¬(X4 +X3 +X2)
8082   G1= ¬(X4 +X1X2X3)     F= ¬(X4)  ¬G1+ ¬(X4 +X3 +X2)
8083   G1= ¬(X1X2X3)     F=  ¬G1+ ¬(X4 +X3 +X2)
8086   G1= ¬(X3X4 +X1X2X4 +X1X2X3)     F= ¬(X3X4)  ¬G1+ ¬(X4 +X3 +X2)
8087   G1= ¬(X1X2X4 +X1X2X3)     F=  ¬G1+ ¬(X4 +X3 +X2)
8088   G1= ¬(X4 +X3 +X1X2)     F= ¬(X4 +X3)  ¬G1+ ¬(X4 +X3 +X2)
8089   G1= ¬(X4 +X3 +X1X2)    G2= ¬(X1X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1+ ¬(X4 +X3 +X2)
808A   G1= ¬(X4 +X1X2)     F= ¬(X4)  ¬G1+ ¬(X4 +X3 +X2)
808B   G1= ¬(X4 +X3 +X1X2)    G2= ¬(X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1+ ¬(X4 +X3 +X2)
808E   G1= ¬(X3X4 +X1X2)     F= ¬(X3X4)  ¬G1+ ¬(X4 +X3 +X2)
808F   G1= ¬(X1X2)     F=  ¬G1+ ¬(X4 +X3 +X2)
8096   G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X3 +X2)
8097   G1= ¬(X1X3X4 +X1X2X4 +X1X2X3)     F=  ¬G1+ ¬(X4 +X3 +X2)
8098   G1= ¬(X2X4 +X2X3 +X1X3X4 +X1X2)     F= ¬(X2X4 +X2X3)  ¬G1+ ¬(X4 +X3 +X2)
8099   G1= ¬(X4 +X3 +X1X2)    G2= ¬(X1X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1+ ¬(X4 +X3 +X2)
809A   G1= ¬(X2X4 +X1X3X4 +X1X2)     F= ¬(X2X4)  ¬G1+ ¬(X4 +X3 +X2)
809B   G1= ¬(X4 +X3 +X1X2)    G2= ¬(X1X3X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1+ ¬(X4 +X3 +X2)
809E   G1= ¬(X2X3X4 +X1X3X4 +X1X2)     F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X3 +X2)
809F   G1= ¬(X1X3X4 +X1X2)     F=  ¬G1+ ¬(X4 +X3 +X2)
80A8   G1= ¬(X4 +X2X3 +X1X3 +X1X2)     F= ¬(X4 +X2X3)  ¬G1+ ¬(X4 +X3 +X2)
80A9   G1= ¬(X4 +X2X3 +X1X3 +X1X2)    G2= ¬(X1X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1+ ¬(X4 +X3 +X2)
80AA   G1= ¬(X4 +X1X3 +X1X2)     F= ¬(X4)  ¬G1+ ¬(X4 +X3 +X2)
80AB   G1= ¬(X4 +X2X3 +X1X3 +X1X2)    G2= ¬(X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1+ ¬(X4 +X3 +X2)
80AC   G1= ¬(X3X4 +X2X3 +X1X3 +X1X2)     F= ¬(X3X4 +X2X3)  ¬G1+ ¬(X4 +X3 +X2)
80AD   G1= ¬(X4 +X2X3 +X1X3 +X1X2)    G2= ¬(X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1+ ¬(X4 +X3 +X2)
80AE   G1= ¬(X3X4 +X1X3 +X1X2)     F= ¬(X3X4)  ¬G1+ ¬(X4 +X3 +X2)
80AF   G1= ¬(X4 +X2 +X1X3)    G2= ¬(X1X2)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2)  ¬G1+ ¬(X4 +X3 +X2)
80BC   G1= ¬(X2X3 +X1X3 +X1X2)     F= ¬(X2X3)  ¬G1+ ¬(X4 +X3 +X2)
80BD   G1= ¬(X4 +X2X3 +X1X3 +X1X2)    G2= ¬(X1X3X4 +X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
        + ¬(X4 +X3 +X2)
80BE   G1= ¬(X2X3X4 +X1X3 +X1X2)     F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X3 +X2)
80BF   G1= ¬(X1X3 +X1X2)     F=  ¬G1+ ¬(X4 +X3 +X2)
80E8   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X3X4 +X2X4 +X2X3)  ¬G1+ ¬(X4 +X3 +X2)
80E9   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    G2= ¬(X1X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)  ¬G1
        + ¬(X4 +X3 +X2)
80EA   G1= ¬(X3X4 +X2X4 +X1X4 +X1X3 +X1X2)     F= ¬(X3X4 +X2X4)  ¬G1+ ¬(X4 +X3 +X2)
80EB   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    G2= ¬(X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)  ¬G1
        + ¬(X4 +X3 +X2)
80EE   G1= ¬(X3X4 +X1X4 +X1X3 +X1X2)     F= ¬(X3X4)  ¬G1+ ¬(X4 +X3 +X2)
80EF   G1= ¬(X3X4 +X2 +X1X4 +X1X3)    G2= ¬(X1X2)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2)  ¬G1+ ¬(X4 +X3 +X2)
80FE   G1= ¬(X2X3X4 +X1X4 +X1X3 +X1X2)     F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X3 +X2)
80FF   G1= ¬(X1X4 +X1X3 +X1X2)     F=  ¬G1+ ¬(X4 +X3 +X2)
8116   G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X3 +X2 +X1)
8117   G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F=  ¬G1+ ¬(X4 +X3 +X2 +X1)
8118   G1= ¬(X2X3X4 +X1X3X4 +X1X2)     F= ¬(X1X2X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2 +X1)
8119   G1= ¬(X4 +X3 +X1X2)    G2= ¬(X2X3X4 +X1X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1+ ¬(X4 +X3 +X2 +X1)
811A   G1= ¬(X2X3X4 +X1X3X4 +X1X2)     F= ¬(X1X2X4)  ¬G1+ ¬(X4 +X3 +X2 +X1)
811B   G1= ¬(X4 +X3 +X1X2)    G2= ¬(X2X3X4 +X1X3X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1+ ¬(X4 +X3 +X2 +X1)
811E   G1= ¬(X2X3X4 +X1X3X4 +X1X2)     F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X3 +X2 +X1)
811F   G1= ¬(X2X3X4 +X1X3X4 +X1X2)     F=  ¬G1+ ¬(X4 +X3 +X2 +X1)
8128   G1= ¬(X1X4 +X2X3X4 +X1X3 +X1X2)     F= ¬(X1X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2 +X1)
8129   G1= ¬(X4 +X2X3 +X1X3 +X1X2)    G2= ¬(X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1+ ¬(X4 +X3 +X2 +X1)
812A   G1= ¬(X1X4 +X2X3X4 +X1X3 +X1X2)     F= ¬(X1X4)  ¬G1+ ¬(X4 +X3 +X2 +X1)
812B   G1= ¬(X4 +X2X3 +X1X3 +X1X2)    G2= ¬(X2X3X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
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     + ¬(X4 +X3 +X2 +X1)
812C  G1= ¬(X2X3X4 +X1X3 +X1X2)     F= ¬(X1X3X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2 +X1)
812D  G1= ¬(X4 +X2X3 +X1X3 +X1X2)    G2= ¬(X2X3X4 +X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
     + ¬(X4 +X3 +X2 +X1)
812E  G1= ¬(X2X3X4 +X1X3 +X1X2)     F= ¬(X1X3X4)  ¬G1+ ¬(X4 +X3 +X2 +X1)
812F  G1= ¬(X4 +X2 +X1X3)    G2= ¬(X2X3X4 +X1X2)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2)  ¬G1+ ¬(X4 +X3 +X2 +X1)
813C  G1= ¬(X2X3X4 +X1X3 +X1X2)     F= ¬(X1X2X3)  ¬G1+ ¬(X4 +X3 +X2 +X1)
813D  G1= ¬(X4 +X2X3 +X1X3 +X1X2)    G2= ¬(X2X3X4 +X1X3X4 +X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
     + ¬(X4 +X3 +X2 +X1)
813E  G1= ¬(X2X3X4 +X1X3 +X1X2)     F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X3 +X2 +X1)
813F  G1= ¬(X2X3X4 +X1X3 +X1X2)     F=  ¬G1+ ¬(X4 +X3 +X2 +X1)
8168  G1= ¬(X2X3X4 +X1X4 +X1X3 +X1X2)     F= ¬(X1X3X4 +X1X2X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2 +X1)
8169  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    G2= ¬(X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)  ¬G1
     + ¬(X4 +X3 +X2 +X1)
816A  G1= ¬(X2X3X4 +X1X4 +X1X3 +X1X2)     F= ¬(X1X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X3 +X2 +X1)
816B  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    G2= ¬(X2X3X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)  ¬G1
     + ¬(X4 +X3 +X2 +X1)
816E  G1= ¬(X2X3X4 +X1X4 +X1X3 +X1X2)     F= ¬(X1X3X4)  ¬G1+ ¬(X4 +X3 +X2 +X1)
816F  G1= ¬(X3X4 +X2 +X1X4 +X1X3)    G2= ¬(X2X3X4 +X1X2)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2)  ¬G1+ ¬(X4 +X3 +X2 +X1)
817E  G1= ¬(X2X3X4 +X1X4 +X1X3 +X1X2)     F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X3 +X2 +X1)
817F  G1= ¬(X2X3X4 +X1X4 +X1X3 +X1X2)     F=  ¬G1+ ¬(X4 +X3 +X2 +X1)
8180  G1= ¬(X1 +X2X3X4)     F= ¬(X1)  ¬G1+ ¬(X4 +X3 +X2)
8182  G1= ¬(X1X4 +X2X3X4 +X1X2X3)     F= ¬(X1X4)  ¬G1+ ¬(X4 +X3 +X2)
8183  G1= ¬(X2X3X4 +X1X2X3)     F=  ¬G1+ ¬(X4 +X3 +X2)
8186  G1= ¬(X1X3X4 +X2X3X4 +X1X2X4 +X1X2X3)     F= ¬(X1X3X4)  ¬G1+ ¬(X4 +X3 +X2)
8187  G1= ¬(X2X3X4 +X1X2X4 +X1X2X3)     F=  ¬G1+ ¬(X4 +X3 +X2)
8188  G1= ¬(X1X4 +X1X3 +X2X3X4 +X1X2)     F= ¬(X1X4 +X1X3)  ¬G1+ ¬(X4 +X3 +X2)
8189  G1= ¬(X4 +X3 +X1X2)    G2= ¬(X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1+ ¬(X4 +X3 +X2)
818A  G1= ¬(X1X4 +X2X3X4 +X1X2)     F= ¬(X1X4)  ¬G1+ ¬(X4 +X3 +X2)
818B  G1= ¬(X4 +X3 +X1X2)    G2= ¬(X2X3X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1+ ¬(X4 +X3 +X2)
818E  G1= ¬(X1X3X4 +X2X3X4 +X1X2)     F= ¬(X1X3X4)  ¬G1+ ¬(X4 +X3 +X2)
818F  G1= ¬(X2X3X4 +X1X2)     F=  ¬G1+ ¬(X4 +X3 +X2)
8196  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X3 +X2)
8197  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F=  ¬G1+ ¬(X4 +X3 +X2)
8198  G1= ¬(X2X3X4 +X1X3X4 +X1X2)     F= ¬(X1X2X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
8199  G1= ¬(X4 +X3 +X1X2)    G2= ¬(X2X3X4 +X1X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1+ ¬(X4 +X3 +X2)
819A  G1= ¬(X2X3X4 +X1X3X4 +X1X2)     F= ¬(X1X2X4)  ¬G1+ ¬(X4 +X3 +X2)
819B  G1= ¬(X4 +X3 +X1X2)    G2= ¬(X2X3X4 +X1X3X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X3)  ¬G1+ ¬(X4 +X3 +X2)
819E  G1= ¬(X2X3X4 +X1X3X4 +X1X2)     F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X3 +X2)
819F  G1= ¬(X2X3X4 +X1X3X4 +X1X2)     F=  ¬G1+ ¬(X4 +X3 +X2)
81A8  G1= ¬(X1X4 +X2X3X4 +X1X3 +X1X2)     F= ¬(X1X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
81A9  G1= ¬(X4 +X2X3 +X1X3 +X1X2)    G2= ¬(X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1+ ¬(X4 +X3 +X2)
81AA  G1= ¬(X1X4 +X2X3X4 +X1X3 +X1X2)     F= ¬(X1X4)  ¬G1+ ¬(X4 +X3 +X2)
81AB  G1= ¬(X4 +X2X3 +X1X3 +X1X2)    G2= ¬(X2X3X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
     + ¬(X4 +X3 +X2)
81AC  G1= ¬(X2X3X4 +X1X3 +X1X2)     F= ¬(X1X3X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
81AD  G1= ¬(X4 +X2X3 +X1X3 +X1X2)    G2= ¬(X2X3X4 +X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
     + ¬(X4 +X3 +X2)
81AE  G1= ¬(X2X3X4 +X1X3 +X1X2)     F= ¬(X1X3X4)  ¬G1+ ¬(X4 +X3 +X2)
81AF  G1= ¬(X4 +X2 +X1X3)    G2= ¬(X2X3X4 +X1X2)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2)  ¬G1+ ¬(X4 +X3 +X2)
81BC  G1= ¬(X2X3X4 +X1X3 +X1X2)     F= ¬(X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
81BD  G1= ¬(X4 +X2X3 +X1X3 +X1X2)    G2= ¬(X2X3X4 +X1X3X4 +X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2X3)  ¬G1
     + ¬(X4 +X3 +X2)
81BE  G1= ¬(X2X3X4 +X1X3 +X1X2)     F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X3 +X2)
81BF  G1= ¬(X2X3X4 +X1X3 +X1X2)     F=  ¬G1+ ¬(X4 +X3 +X2)
81E8  G1= ¬(X2X3X4 +X1X4 +X1X3 +X1X2)     F= ¬(X1X3X4 +X1X2X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
81E9  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    G2= ¬(X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)  ¬G1
     + ¬(X4 +X3 +X2)
81EA  G1= ¬(X2X3X4 +X1X4 +X1X3 +X1X2)     F= ¬(X1X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X3 +X2)
81EB  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    G2= ¬(X2X3X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)  ¬G1
     + ¬(X4 +X3 +X2)
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81EE  G1= ¬(X2X3X4 +X1X4 +X1X3 +X1X2)     F= ¬(X1X3X4)   ¬G1+ ¬(X4 +X3 +X2)
81EF  G1= ¬(X3X4 +X2 +X1X4 +X1X3)    G2= ¬(X2X3X4 +X1X2)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X2)   ¬G1+ ¬(X4 +X3 +X2)
81FE  G1= ¬(X2X3X4 +X1X4 +X1X3 +X1X2)     F= ¬(X1X2X3X4)   ¬G1+ ¬(X4 +X3 +X2)
81FF  G1= ¬(X2X3X4 +X1X4 +X1X3 +X1X2)     F=   ¬G1+ ¬(X4 +X3 +X2)
8228  G1= ¬(X4 +X2X3 +X1X3 +X1X2)    F= ¬(X4 +X1X2X3)   ¬G1+ ¬(X4 +X3 +X2 +X1)
8229  G1= ¬(X4 +X2X3 +X1X3 +X1X2)    G2= ¬(X1X2X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X4 +X1X2X3)   ¬G1+ ¬(X4 +X3 +X2 +X1)
822A  G1= ¬(X4 +X2X3 +X1X3 +X1X2)    F= ¬(X4)   ¬G1+ ¬(X4 +X3 +X2 +X1)
822B  G1= ¬(X4 +X2X3 +X1X3 +X1X2)    G2= ¬(X1X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X4 +X1X2X3)   ¬G1+ ¬(X4 +X3 +X2 +X1)
822C  G1= ¬(X3X4 +X2X3 +X1X3 +X1X2)     F= ¬(X3X4 +X1X2X3)   ¬G1+ ¬(X4 +X3 +X2 +X1)
822D  G1= ¬(X4 +X2X3 +X1X3 +X1X2)    G2= ¬(X1X2X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X4 +X1X2X3)   ¬G1+ ¬(X4 +X3 +X2 +X1)
822E  G1= ¬(X3X4 +X2X3 +X1X3 +X1X2)     F= ¬(X3X4)   ¬G1+ ¬(X4 +X3 +X2 +X1)
822F  G1= ¬(X4 +X1X2 +X2X3 +X1X3)    G2= ¬(X1X2)   ¬G1    F=   ¬G1 ¬G2+ ¬(X4 +X1X2)   ¬G1+ ¬(X4 +X3 +X2 +X1)
823C  G1= ¬(X2X3 +X1X3 +X1X2)     F= ¬(X2X3X4 +X1X2X3)   ¬G1+ ¬(X4 +X3 +X2 +X1)
823D  G1= ¬(X4 +X2X3 +X1X3 +X1X2)    G2= ¬(X1X3X4 +X1X2X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X4 +X1X2X3)   ¬G1
        + ¬(X4 +X3 +X2 +X1)
823E  G1= ¬(X2X3 +X1X3 +X1X2)     F= ¬(X2X3X4)   ¬G1+ ¬(X4 +X3 +X2 +X1)
823F  G1= ¬(X4 +X1 +X2X3)    G2= ¬(X1X3 +X1X2)   ¬G1    F=   ¬G1 ¬G2+ ¬(X4 +X1)   ¬G1+ ¬(X4 +X3 +X2 +X1)
8240  G1= ¬(X3X4 +X2X4 +X1X3 +X1X2 +X2X3 +X1X4)     F= ¬(X3X4 +X2X4 +X1X3 +X1X2)   ¬G1+ ¬(X4 +X3 +X2 +X1)
8241  G1= ¬(X3X4 +X2X4 +X1X3 +X1X2 +X2X3 +X1X4)    G2= ¬(X1X2X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)   ¬G1
        + ¬(X4 +X3 +X2 +X1)
8242  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4)     F= ¬(X3X4 +X2X4)   ¬G1+ ¬(X4 +X3 +X2 +X1)
8243  G1= ¬(X3X4 +X2X4 +X1X3 +X1X2 +X2X3 +X1X4)    G2= ¬(X1X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)   ¬G1
        + ¬(X4 +X3 +X2 +X1)
8245  G1= ¬(X3X4 +X2X3 +X1X4)     F= ¬(X3X4)   ¬G1+ ¬(X4 +X3 +X2 +X1)
8247  G1= ¬(X3X4 +X2X4 +X1X3 +X1X2 +X2X3 +X1X4)    G2= ¬(X1X2X4 +X1X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)   ¬G1
        + ¬(X4 +X3 +X2 +X1)
8248  G1= ¬(X3X4 +X2X4 +X1X3 +X2X3 +X1X4 +X1X2)     F= ¬(X3X4 +X2X4 +X1X3)   ¬G1+ ¬(X4 +X3 +X2 +X1)
8249  G1= ¬(X3X4 +X2X4 +X1X3 +X2X3 +X1X4 +X1X2)    G2= ¬(X1X2X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)   ¬G1
        + ¬(X4 +X3 +X2 +X1)
824A  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X2)     F= ¬(X3X4 +X2X4)   ¬G1+ ¬(X4 +X3 +X2 +X1)
824B  G1= ¬(X3X4 +X2X4 +X1X3 +X2X3 +X1X4 +X1X2)    G2= ¬(X1X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)   ¬G1
        + ¬(X4 +X3 +X2 +X1)
824E  G1= ¬(X3X4 +X2X3 +X1X4 +X1X2)     F= ¬(X3X4)   ¬G1+ ¬(X4 +X3 +X2 +X1)
824F  G1= ¬(X3X4 +X2X4 +X1X3 +X1X2 +X2X3 +X1X4)    G2= ¬(X1X2)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)   ¬G1
        + ¬(X4 +X3 +X2 +X1)
8254  G1= ¬(X2X3 +X1X4)     F= ¬(X2X3X4 +X1X2X3)   ¬G1+ ¬(X4 +X3 +X2 +X1)
8255  G1= ¬(X4 +X1 +X2X3)    G2= ¬(X1X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X4 +X1)   ¬G1+ ¬(X4 +X3 +X2 +X1)
8256  G1= ¬(X2X3 +X1X4)     F= ¬(X2X3X4)   ¬G1+ ¬(X4 +X3 +X2 +X1)
8257  G1= ¬(X4 +X1 +X2X3)    G2= ¬(X1X4 +X1X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X4 +X1)   ¬G1+ ¬(X4 +X3 +X2 +X1)
8258  G1= ¬(X2X4 +X2X3 +X1X4 +X1X2)     F= ¬(X2X4 +X1X2X3)   ¬G1+ ¬(X4 +X3 +X2 +X1)
8259  G1= ¬(X3X4 +X2X4 +X1X3 +X2X3 +X1X4 +X1X2)    G2= ¬(X1X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)   ¬G1
        + ¬(X4 +X3 +X2 +X1)
825A  G1= ¬(X2X4 +X2X3 +X1X4 +X1X2)     F= ¬(X2X4)   ¬G1+ ¬(X4 +X3 +X2 +X1)
825B  G1= ¬(X3X4 +X2X4 +X1X3 +X2X3 +X1X4 +X1X2)    G2= ¬(X1X3X4 +X1X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)   ¬G1
        + ¬(X4 +X3 +X2 +X1)
825C  G1= ¬(X2X3 +X1X4 +X1X2)     F= ¬(X2X3X4 +X1X2X3)   ¬G1+ ¬(X4 +X3 +X2 +X1)
825D  G1= ¬(X4 +X1X3 +X2X3 +X1X2)    G2= ¬(X1X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X4 +X1X3)   ¬G1+ ¬(X4 +X3 +X2 +X1)
825E  G1= ¬(X2X3 +X1X4 +X1X2)     F= ¬(X2X3X4)   ¬G1+ ¬(X4 +X3 +X2 +X1)
825F  G1= ¬(X4 +X1 +X2X3)    G2= ¬(X1X4 +X1X2)   ¬G1    F=   ¬G1 ¬G2+ ¬(X4 +X1)   ¬G1+ ¬(X4 +X3 +X2 +X1)
8268  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X3X4 +X2X4 +X1X2X3)   ¬G1+ ¬(X4 +X3 +X2 +X1)
8269  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    G2= ¬(X1X2X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)   ¬G1
        + ¬(X4 +X3 +X2 +X1)
826A  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X3X4 +X2X4)   ¬G1+ ¬(X4 +X3 +X2 +X1)
826B  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    G2= ¬(X1X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)   ¬G1
        + ¬(X4 +X3 +X2 +X1)
826C  G1= ¬(X3X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X3X4 +X1X2X3)   ¬G1+ ¬(X4 +X3 +X2 +X1)
826D  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    G2= ¬(X1X2X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)   ¬G1
        + ¬(X4 +X3 +X2 +X1)
826E  G1= ¬(X3X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X3X4)   ¬G1+ ¬(X4 +X3 +X2 +X1)
826F  G1= ¬(X3X4 +X2X4 +X1X2 +X2X3 +X1X4 +X1X3)    G2= ¬(X1X2)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2)   ¬G1
        + ¬(X4 +X3 +X2 +X1)
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827C  G1= ¬(X2X3 +X1X4 +X1X3 +X1X2)    F= ¬(X2X3X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2 +X1)
827D  G1= ¬(X4 +X2X3 +X1X3 +X1X2)   G2= ¬(X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2 +X1)
827E  G1= ¬(X2X3 +X1X4 +X1X3 +X1X2)    F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X3 +X2 +X1)
827F  G1= ¬(X4 +X1 +X2X3)   G2= ¬(X1X4 +X1X3 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1)  ¬G1+ ¬(X4 +X3 +X2 +X1)
8280  G1= ¬(X4 +X1 +X2X3)    F= ¬(X4 +X1)  ¬G1+ ¬(X4 +X3 +X2)
8281  G1= ¬(X4 +X1 +X2X3)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1)  ¬G1+ ¬(X4 +X3 +X2)
8283  G1= ¬(X4 +X1 +X2X3)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1)  ¬G1+ ¬(X4 +X3 +X2)
8284  G1= ¬(X3X4 +X1X3 +X2X3 +X1X2X4)    F= ¬(X3X4 +X1X3)  ¬G1+ ¬(X4 +X3 +X2)
8285  G1= ¬(X4 +X1 +X2X3)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1)  ¬G1+ ¬(X4 +X3 +X2)
8286  G1= ¬(X3X4 +X2X3 +X1X2X4)    F= ¬(X3X4)  ¬G1+ ¬(X4 +X3 +X2)
8287  G1= ¬(X4 +X1 +X2X3)   G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1)  ¬G1+ ¬(X4 +X3 +X2)
8288  G1= ¬(X4 +X1X3 +X2X3 +X1X2)    F= ¬(X4 +X1X3)  ¬G1+ ¬(X4 +X3 +X2)
8289  G1= ¬(X4 +X1X3 +X2X3 +X1X2)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X3)  ¬G1+ ¬(X4 +X3 +X2)
828A  G1= ¬(X4 +X2X3 +X1X2)    F= ¬(X4)  ¬G1+ ¬(X4 +X3 +X2)
828B  G1= ¬(X4 +X1X3 +X2X3 +X1X2)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X3)  ¬G1+ ¬(X4 +X3 +X2)
828C  G1= ¬(X3X4 +X1X3 +X2X3 +X1X2)    F= ¬(X3X4 +X1X3)  ¬G1+ ¬(X4 +X3 +X2)
828D  G1= ¬(X4 +X1X3 +X2X3 +X1X2)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X3)  ¬G1+ ¬(X4 +X3 +X2)
828E  G1= ¬(X3X4 +X2X3 +X1X2)    F= ¬(X3X4)  ¬G1+ ¬(X4 +X3 +X2)
828F  G1= ¬(X4 +X1 +X2X3)   G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1)  ¬G1+ ¬(X4 +X3 +X2)
8294  G1= ¬(X2X3 +X1X3X4 +X1X2X4)    F= ¬(X2X3X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
8295  G1= ¬(X4 +X1 +X2X3)   G2= ¬(X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1)  ¬G1+ ¬(X4 +X3 +X2)
8296  G1= ¬(X2X3 +X1X3X4 +X1X2X4)    F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X3 +X2)
8297  G1= ¬(X4 +X1 +X2X3)   G2= ¬(X1X3X4 +X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1)  ¬G1+ ¬(X4 +X3 +X2)
8298  G1= ¬(X2X4 +X2X3 +X1X3X4 +X1X2)    F= ¬(X2X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
8299  G1= ¬(X4 +X1X3 +X2X3 +X1X2)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X3)  ¬G1+ ¬(X4 +X3 +X2)
829A  G1= ¬(X2X4 +X2X3 +X1X3X4 +X1X2)    F= ¬(X2X4)  ¬G1+ ¬(X4 +X3 +X2)
829B  G1= ¬(X4 +X1X3 +X2X3 +X1X2)   G2= ¬(X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X3)  ¬G1
        + ¬(X4 +X3 +X2)
829C  G1= ¬(X2X3 +X1X3X4 +X1X2)    F= ¬(X2X3X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
829D  G1= ¬(X4 +X1X3 +X2X3 +X1X2)   G2= ¬(X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X3)  ¬G1
        + ¬(X4 +X3 +X2)
829E  G1= ¬(X2X3 +X1X3X4 +X1X2)    F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X3 +X2)
829F  G1= ¬(X4 +X1 +X2X3)   G2= ¬(X1X3X4 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1)  ¬G1+ ¬(X4 +X3 +X2)
82A8  G1= ¬(X4 +X2X3 +X1X3 +X1X2)    F= ¬(X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
82A9  G1= ¬(X4 +X2X3 +X1X3 +X1X2)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
82AA  G1= ¬(X4 +X2X3 +X1X3 +X1X2)    F= ¬(X4)  ¬G1+ ¬(X4 +X3 +X2)
82AB  G1= ¬(X4 +X2X3 +X1X3 +X1X2)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
82AC  G1= ¬(X3X4 +X2X3 +X1X3 +X1X2)    F= ¬(X3X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
82AD  G1= ¬(X4 +X2X3 +X1X3 +X1X2)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
82AE  G1= ¬(X3X4 +X2X3 +X1X3 +X1X2)    F= ¬(X3X4)  ¬G1+ ¬(X4 +X3 +X2)
82AF  G1= ¬(X4 +X1X2 +X2X3 +X1X3)   G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2)  ¬G1+ ¬(X4 +X3 +X2)
82BC  G1= ¬(X2X3 +X1X3 +X1X2)    F= ¬(X2X3X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
82BD  G1= ¬(X4 +X2X3 +X1X3 +X1X2)   G2= ¬(X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1
        + ¬(X4 +X3 +X2)
82BE  G1= ¬(X2X3 +X1X3 +X1X2)    F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X3 +X2)
82BF  G1= ¬(X4 +X1 +X2X3)   G2= ¬(X1X3 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1)  ¬G1+ ¬(X4 +X3 +X2)
82C0  G1= ¬(X3X4 +X2X4 +X1X3 +X1X2 +X2X3 +X1X4)    F= ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1+ ¬(X4 +X3 +X2)
82C1  G1= ¬(X3X4 +X2X4 +X1X3 +X1X2 +X2X3 +X1X4)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
        + ¬(X4 +X3 +X2)
82C2  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4)    F= ¬(X3X4 +X2X4)  ¬G1+ ¬(X4 +X3 +X2)
82C3  G1= ¬(X3X4 +X2X4 +X1X3 +X1X2 +X2X3 +X1X4)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
        + ¬(X4 +X3 +X2)
82C4  G1= ¬(X3X4 +X1X3 +X2X3 +X1X4)    F= ¬(X3X4 +X1X3)  ¬G1+ ¬(X4 +X3 +X2)
82C5  G1= ¬(X3X4 +X2X4 +X1X3 +X1X2 +X2X3 +X1X4)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
        + ¬(X4 +X3 +X2)
82C6  G1= ¬(X3X4 +X2X3 +X1X4)    F= ¬(X3X4)  ¬G1+ ¬(X4 +X3 +X2)
82C7  G1= ¬(X3X4 +X2X4 +X1X3 +X1X2 +X2X3 +X1X4)   G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
        + ¬(X4 +X3 +X2)
82C8  G1= ¬(X3X4 +X2X4 +X1X3 +X2X3 +X1X4 +X1X2)    F= ¬(X3X4 +X2X4 +X1X3)  ¬G1+ ¬(X4 +X3 +X2)
82C9  G1= ¬(X3X4 +X2X4 +X1X3 +X2X3 +X1X4 +X1X2)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)  ¬G1
        + ¬(X4 +X3 +X2)
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82CA  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X2)     F= ¬(X3X4 +X2X4)  ¬G1+ ¬(X4 +X3 +X2)
82CB  G1= ¬(X3X4 +X2X4 +X1X3 +X2X3 +X1X4 +X1X2)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)  ¬G1
        + ¬(X4 +X3 +X2)
82CC  G1= ¬(X3X4 +X1X3 +X2X3 +X1X4 +X1X2)     F= ¬(X3X4 +X1X3)  ¬G1+ ¬(X4 +X3 +X2)
82CD  G1= ¬(X3X4 +X2X4 +X1X3 +X2X3 +X1X4 +X1X2)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)  ¬G1
        + ¬(X4 +X3 +X2)
82CE  G1= ¬(X3X4 +X2X3 +X1X4 +X1X2)    F= ¬(X3X4)  ¬G1+ ¬(X4 +X3 +X2)
82CF  G1= ¬(X3X4 +X2X4 +X1X3 +X1X2 +X2X3 +X1X4)   G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
        + ¬(X4 +X3 +X2)
82D4  G1= ¬(X2X3 +X1X4)     F= ¬(X2X3X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
82D5  G1= ¬(X4 +X1 +X2X3)   G2= ¬(X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1)  ¬G1+ ¬(X4 +X3 +X2)
82D6  G1= ¬(X2X3 +X1X4)     F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X3 +X2)
82D7  G1= ¬(X4 +X1 +X2X3)   G2= ¬(X1X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1)  ¬G1+ ¬(X4 +X3 +X2)
82D8  G1= ¬(X2X4 +X2X3 +X1X4 +X1X2)     F= ¬(X2X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
82D9  G1= ¬(X3X4 +X2X4 +X1X3 +X2X3 +X1X4 +X1X2)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)  ¬G1
        + ¬(X4 +X3 +X2)
82DA  G1= ¬(X2X4 +X2X3 +X1X4 +X1X2)     F= ¬(X2X4)  ¬G1+ ¬(X4 +X3 +X2)
82DB  G1= ¬(X3X4 +X2X4 +X1X3 +X2X3 +X1X4 +X1X2)   G2= ¬(X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)  ¬G1
        + ¬(X4 +X3 +X2)
82DC  G1= ¬(X2X3 +X1X4 +X1X2)     F= ¬(X2X3X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
82DD  G1= ¬(X4 +X1X3 +X2X3 +X1X2)   G2= ¬(X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X3)  ¬G1+ ¬(X4 +X3 +X2)
82DE  G1= ¬(X2X3 +X1X4 +X1X2)     F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X3 +X2)
82DF  G1= ¬(X4 +X1 +X2X3)   G2= ¬(X1X4 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1)  ¬G1+ ¬(X4 +X3 +X2)
82E8  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X3X4 +X2X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
82E9  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)  ¬G1
        + ¬(X4 +X3 +X2)
82EA  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X3X4 +X2X4)  ¬G1+ ¬(X4 +X3 +X2)
82EB  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)  ¬G1
        + ¬(X4 +X3 +X2)
82EC  G1= ¬(X3X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X3X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
82ED  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)  ¬G1
        + ¬(X4 +X3 +X2)
82EE  G1= ¬(X3X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X3X4)  ¬G1+ ¬(X4 +X3 +X2)
82EF  G1= ¬(X3X4 +X2X4 +X1X2 +X2X3 +X1X4 +X1X3)   G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2)  ¬G1
        + ¬(X4 +X3 +X2)
82FC  G1= ¬(X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X2X3X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
82FD  G1= ¬(X4 +X2X3 +X1X3 +X1X2)   G2= ¬(X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
82FE  G1= ¬(X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X3 +X2)
82FF  G1= ¬(X4 +X1 +X2X3)   G2= ¬(X1X4 +X1X3 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1)  ¬G1+ ¬(X4 +X3 +X2)
833C  G1= ¬(X2X3 +X1X3 +X1X2)     F= ¬(X1X2X3)  ¬G1+ ¬(X4 +X3 +X2 +X1)
833D  G1= ¬(X4 +X2X3 +X1X3 +X1X2)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1
        + ¬(X4 +X3 +X2 +X1)
833E  G1= ¬(X2X3 +X1X3 +X1X2)     F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X3 +X2 +X1)
833F  G1= ¬(X2X3 +X1X3 +X1X2)     F=  ¬G1+ ¬(X4 +X3 +X2 +X1)
8356  G1= ¬(X2X3 +X1X4)     F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X3 +X2 +X1)
8357  G1= ¬(X2X3 +X1X4)     F=  ¬G1+ ¬(X4 +X3 +X2 +X1)
8358  G1= ¬(X2X3 +X1X4 +X1X2)     F= ¬(X1X2X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2 +X1)
8359  G1= ¬(X3X4 +X2X4 +X1X3 +X2X3 +X1X4 +X1X2)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)  ¬G1
        + ¬(X4 +X3 +X2 +X1)
835A  G1= ¬(X2X3 +X1X4 +X1X2)     F= ¬(X1X2X4)  ¬G1+ ¬(X4 +X3 +X2 +X1)
835B  G1= ¬(X3 +X2X4 +X1X4 +X1X2)   G2= ¬(X2X3 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2X4)  ¬G1+ ¬(X4 +X3 +X2 +X1)
835E  G1= ¬(X2X3 +X1X4 +X1X2)     F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X3 +X2 +X1)
835F  G1= ¬(X2X3 +X1X4 +X1X2)     F=  ¬G1+ ¬(X4 +X3 +X2 +X1)
8368  G1= ¬(X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X1X3X4 +X1X2X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2 +X1)
8369  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)  ¬G1
        + ¬(X4 +X3 +X2 +X1)
836A  G1= ¬(X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X1X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X3 +X2 +X1)
836B  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   G2= ¬(X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)  ¬G1
        + ¬(X4 +X3 +X2 +X1)
836C  G1= ¬(X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X1X3X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2 +X1)
836D  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   G2= ¬(X2X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)  ¬GI
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          + ¬(X4 +X3 +X2 +X1)
836E   G1= ¬(X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X1X3X4)   ¬G1+ ¬(X4 +X3 +X2 +X1)
836F   G1= ¬(X3X4 +X2 +X1X4 +X1X3)    G2= ¬(X2X3 +X1X2)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X2)   ¬G1+ ¬(X4 +X3 +X2 +X1)
837C   G1= ¬(X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X1X2X3)   ¬G1+ ¬(X4 +X3 +X2 +X1)
837D   G1= ¬(X4 +X2X3 +X1X3 +X1X2)    G2= ¬(X2X3X4 +X1X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X4 +X1X2X3)   ¬G1
          + ¬(X4 +X3 +X2 +X1)
837E   G1= ¬(X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X1X2X3X4)   ¬G1+ ¬(X4 +X3 +X2 +X1)
837F   G1= ¬(X2X3 +X1X4 +X1X3 +X1X2)     F=   ¬G1+ ¬(X4 +X3 +X2 +X1)
8380   G1= ¬(X1 +X2X3)     F= ¬(X1)   ¬G1+ ¬(X4 +X3 +X2)
8381   G1= ¬(X4 +X1 +X2X3)    G2= ¬(X2X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X4 +X1)   ¬G1+ ¬(X4 +X3 +X2)
8382   G1= ¬(X1X4 +X2X3)     F= ¬(X1X4)   ¬G1+ ¬(X4 +X3 +X2)
8384   G1= ¬(X1X3 +X2X3 +X1X2X4)     F= ¬(X1X3)   ¬G1+ ¬(X4 +X3 +X2)
8385   G1= ¬(X4 +X1 +X2X3)    G2= ¬(X2X3X4 +X1X2X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X4 +X1)   ¬G1+ ¬(X4 +X3 +X2)
8386   G1= ¬(X1X3X4 +X2X3 +X1X2X4)     F= ¬(X1X3X4)   ¬G1+ ¬(X4 +X3 +X2)
8387   G1= ¬(X2X3 +X1X2X4)     F=   ¬G1+ ¬(X4 +X3 +X2)
8388   G1= ¬(X1X4 +X1X3 +X2X3 +X1X2)     F= ¬(X1X4 +X1X3)   ¬G1+ ¬(X4 +X3 +X2)
8389   G1= ¬(X4 +X1X3 +X2X3 +X1X2)    G2= ¬(X2X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X4 +X1X3)   ¬G1+ ¬(X4 +X3 +X2)
838A   G1= ¬(X1X4 +X2X3 +X1X2)     F= ¬(X1X4)   ¬G1+ ¬(X4 +X3 +X2)
838B   G1= ¬(X4 +X3 +X1X2)    G2= ¬(X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X4 +X3)   ¬G1+ ¬(X4 +X3 +X2)
838C   G1= ¬(X1X3 +X2X3 +X1X2)     F= ¬(X1X3)   ¬G1+ ¬(X4 +X3 +X2)
838D   G1= ¬(X4 +X1X3 +X2X3 +X1X2)    G2= ¬(X2X3X4 +X1X2X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X4 +X1X3)   ¬G1
          + ¬(X4 +X3 +X2)
838E   G1= ¬(X1X3X4 +X2X3 +X1X2)     F= ¬(X1X3X4)   ¬G1+ ¬(X4 +X3 +X2)
838F   G1= ¬(X2X3 +X1X2)     F=   ¬G1+ ¬(X4 +X3 +X2)
8394   G1= ¬(X2X3 +X1X3X4 +X1X2X4)     F= ¬(X1X2X3)   ¬G1+ ¬(X4 +X3 +X2)
8395   G1= ¬(X4 +X1 +X2X3)    G2= ¬(X2X3X4 +X1X3X4 +X1X2X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X4 +X1)   ¬G1+ ¬(X4 +X3 +X2)
8396   G1= ¬(X2X3 +X1X3X4 +X1X2X4)     F= ¬(X1X2X3X4)   ¬G1+ ¬(X4 +X3 +X2)
8397   G1= ¬(X2X3 +X1X3X4 +X1X2X4)     F=   ¬G1+ ¬(X4 +X3 +X2)
8398   G1= ¬(X2X3 +X1X3X4 +X1X2)     F= ¬(X1X2X4 +X1X2X3)   ¬G1+ ¬(X4 +X3 +X2)
8399   G1= ¬(X4 +X1X3 +X2X3 +X1X2)    G2= ¬(X2X3X4 +X1X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X4 +X1X3)   ¬G1
          + ¬(X4 +X3 +X2)
839A   G1= ¬(X2X3 +X1X3X4 +X1X2)     F= ¬(X1X2X4)   ¬G1+ ¬(X4 +X3 +X2)
839B   G1= ¬(X4 +X3 +X1X2)    G2= ¬(X2X3 +X1X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X4 +X3)   ¬G1+ ¬(X4 +X3 +X2)
839C   G1= ¬(X2X3 +X1X3X4 +X1X2)     F= ¬(X1X2X3)   ¬G1+ ¬(X4 +X3 +X2)
839D   G1= ¬(X4 +X1X3 +X2X3 +X1X2)    G2= ¬(X2X3X4 +X1X3X4 +X1X2X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X4 +X1X3)   ¬G1
          + ¬(X4 +X3 +X2)
839E   G1= ¬(X2X3 +X1X3X4 +X1X2)     F= ¬(X1X2X3X4)   ¬G1+ ¬(X4 +X3 +X2)
839F   G1= ¬(X2X3 +X1X3X4 +X1X2)     F=   ¬G1+ ¬(X4 +X3 +X2)
83A8   G1= ¬(X1X4 +X2X3 +X1X3 +X1X2)     F= ¬(X1X4 +X1X2X3)   ¬G1+ ¬(X4 +X3 +X2)
83A9   G1= ¬(X4 +X2X3 +X1X3 +X1X2)    G2= ¬(X2X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X4 +X1X2X3)   ¬G1+ ¬(X4 +X3 +X2)
83AA   G1= ¬(X1X4 +X2X3 +X1X3 +X1X2)     F= ¬(X1X4)   ¬G1+ ¬(X4 +X3 +X2)
83AB   G1= ¬(X4 +X2X3 +X1X3 +X1X2)    G2= ¬(X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X4 +X2X3)   ¬G1+ ¬(X4 +X3 +X2)
83AC   G1= ¬(X2X3 +X1X3 +X1X2)     F= ¬(X1X3X4 +X1X2X3)   ¬G1+ ¬(X4 +X3 +X2)
83AD   G1= ¬(X4 +X2X3 +X1X3 +X1X2)    G2= ¬(X2X3X4 +X1X2X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X4 +X1X2X3)   ¬G1
          + ¬(X4 +X3 +X2)
83AE   G1= ¬(X2X3 +X1X3 +X1X2)     F= ¬(X1X3X4)   ¬G1+ ¬(X4 +X3 +X2)
83AF   G1= ¬(X4 +X2 +X1X3)    G2= ¬(X2X3 +X1X2)   ¬G1    F=   ¬G1 ¬G2+ ¬(X4 +X2)   ¬G1+ ¬(X4 +X3 +X2)
83BC   G1= ¬(X2X3 +X1X3 +X1X2)     F= ¬(X1X2X3)   ¬G1+ ¬(X4 +X3 +X2)
83BD   G1= ¬(X4 +X2X3 +X1X3 +X1X2)    G2= ¬(X2X3X4 +X1X3X4 +X1X2X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X4 +X1X2X3)   ¬G1
          + ¬(X4 +X3 +X2)
83BE   G1= ¬(X2X3 +X1X3 +X1X2)     F= ¬(X1X2X3X4)   ¬G1+ ¬(X4 +X3 +X2)
83BF   G1= ¬(X2X3 +X1X3 +X1X2)     F=   ¬G1+ ¬(X4 +X3 +X2)
83C0   G1= ¬(X1X3 +X1X2 +X2X3 +X1X4)     F= ¬(X1X3 +X1X2)   ¬G1+ ¬(X4 +X3 +X2)
83C1   G1= ¬(X3X4 +X2X4 +X1X3 +X1X2 +X2X3 +X1X4)    G2= ¬(X2X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)   ¬G1
          + ¬(X4 +X3 +X2)
83C2   G1= ¬(X2X3 +X1X4)     F= ¬(X1X3X4 +X1X2X4)   ¬G1+ ¬(X4 +X3 +X2)
83C3   G1= ¬(X3 +X2 +X1X4)    G2= ¬(X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3 +X2)   ¬G1+ ¬(X4 +X3 +X2)
83C4   G1= ¬(X1X3 +X2X3 +X1X4)     F= ¬(X1X3)   ¬G1+ ¬(X4 +X3 +X2)
83C5   G1= ¬(X3X4 +X2X4 +X1X3 +X1X2 +X2X3 +X1X4)    G2= ¬(X2X3X4 +X1X2X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)   ¬G1
          + ¬(X4 +X3 +X2)
83C6   G1= ¬(X2X3 +X1X4)     F= ¬(X1X3X4)   ¬G1+ ¬(X4 +X3 +X2)
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33C7  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X2X3 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X3 +X2)
33C8  G1= ¬(X1X3 +X2X3 +X1X4 +X1X2)    F= ¬(X1X3 +X1X2X4)  ¬G1+ ¬(X4 +X3 +X2)
33C9  G1= ¬(X3X4 +X2X4 +X1X3 +X2X3 +X1X4 +X1X2)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)  ¬G1
        + ¬(X4 +X3 +X2)
33CA  G1= ¬(X2X3 +X1X4 +X1X2)    F= ¬(X1X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X3 +X2)
33CB  G1= ¬(X3 +X2X4 +X1X4 +X1X2)   G2= ¬(X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2X4)  ¬G1+ ¬(X4 +X3 +X2)
33CC  G1= ¬(X1X3 +X2X3 +X1X4 +X1X2)    F= ¬(X1X3)  ¬G1+ ¬(X4 +X3 +X2)
33CD  G1= ¬(X3X4 +X2X4 +X1X3 +X2X3 +X1X4 +X1X2)   G2= ¬(X2X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)  ¬G1
        + ¬(X4 +X3 +X2)
33CE  G1= ¬(X2X3 +X1X4 +X1X2)    F= ¬(X1X3X4)  ¬G1+ ¬(X4 +X3 +X2)
33CF  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X2X3 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X3 +X2)
33D4  G1= ¬(X2X3 +X1X4)    F= ¬(X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
33D5  G1= ¬(X4 +X1 +X2X3)   G2= ¬(X2X3X4 +X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1)  ¬G1+ ¬(X4 +X3 +X2)
33D6  G1= ¬(X2X3 +X1X4)    F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X3 +X2)
33D7  G1= ¬(X2X3 +X1X4)    F=  ¬G1+ ¬(X4 +X3 +X2)
33D8  G1= ¬(X2X3 +X1X4 +X1X2)    F= ¬(X1X2X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
33D9  G1= ¬(X3X4 +X2X4 +X1X3 +X2X3 +X1X4 +X1X2)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3)  ¬G1
        + ¬(X4 +X3 +X2)
33DA  G1= ¬(X2X3 +X1X4 +X1X2)    F= ¬(X1X2X4)  ¬G1+ ¬(X4 +X3 +X2)
33DB  G1= ¬(X3 +X2X4 +X1X4 +X1X2)   G2= ¬(X2X3 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2X4)  ¬G1+ ¬(X4 +X3 +X2)
33DC  G1= ¬(X2X3 +X1X4 +X1X2)    F= ¬(X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
33DD  G1= ¬(X4 +X1X3 +X2X3 +X1X2)   G2= ¬(X2X3X4 +X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X3)  ¬G1+ ¬(X4 +X3 +X2)
33DE  G1= ¬(X2X3 +X1X4 +X1X2)    F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X3 +X2)
33DF  G1= ¬(X2X3 +X1X4 +X1X2)    F=  ¬G1+ ¬(X4 +X3 +X2)
33E8  G1= ¬(X2X3 +X1X4 +X1X3 +X1X2)    F= ¬(X1X3X4 +X1X2X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
33E9  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)  ¬G1
        + ¬(X4 +X3 +X2)
33EA  G1= ¬(X2X3 +X1X4 +X1X3 +X1X2)    F= ¬(X1X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X3 +X2)
33EB  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   G2= ¬(X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X2X3)  ¬G1
        + ¬(X4 +X3 +X2)
33EC  G1= ¬(X2X3 +X1X4 +X1X3 +X1X2)    F= ¬(X1X3X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
33ED  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   G2= ¬(X2X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2X3)  ¬G1
        + ¬(X4 +X3 +X2)
33EE  G1= ¬(X2X3 +X1X4 +X1X3 +X1X2)    F= ¬(X1X3X4)  ¬G1+ ¬(X4 +X3 +X2)
33EF  G1= ¬(X3X4 +X2 +X1X4 +X1X3)   G2= ¬(X2X3 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2)  ¬G1+ ¬(X4 +X3 +X2)
33FC  G1= ¬(X2X3 +X1X4 +X1X3 +X1X2)    F= ¬(X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
33FD  G1= ¬(X4 +X2X3 +X1X3 +X1X2)   G2= ¬(X2X3X4 +X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1
        + ¬(X4 +X3 +X2)
33FE  G1= ¬(X2X3 +X1X4 +X1X3 +X1X2)    F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X3 +X2)
33FF  G1= ¬(X2X3 +X1X4 +X1X3 +X1X2)    F=  ¬G1+ ¬(X4 +X3 +X2)
3660  G1= ¬(X3X4 +X1X2 +X2X4 +X2X3 +X1X4 +X1X3)    F= ¬(X3X4 +X1X2)  ¬G1+ ¬(X4 +X3 +X2 +X1)
3661  G1= ¬(X3X4 +X1X2 +X2X4 +X2X3 +X1X4 +X1X3)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)  ¬G1
        + ¬(X4 +X3 +X2 +X1)
3662  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)    F= ¬(X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X3 +X2 +X1)
3663  G1= ¬(X3X4 +X1X2 +X2X4 +X2X3 +X1X4 +X1X3)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)  ¬G1
        + ¬(X4 +X3 +X2 +X1)
3666  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)    F= ¬(X3X4)  ¬G1+ ¬(X4 +X3 +X2 +X1)
3667  G1= ¬(X3X4 +X1X2 +X2X4 +X2X3 +X1X4 +X1X3)   G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)  ¬G1
        + ¬(X4 +X3 +X2 +X1)
3668  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    F= ¬(X3X4 +X1X2X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2 +X1)
3669  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2X4 +X1X2X3)  ¬G1
        + ¬(X4 +X3 +X2 +X1)
366A  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    F= ¬(X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X3 +X2 +X1)
366B  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2X4 +X1X2X3)  ¬G1
        + ¬(X4 +X3 +X2 +X1)
366E  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    F= ¬(X3X4)  ¬G1+ ¬(X4 +X3 +X2 +X1)
366F  G1= ¬(X3X4 +X1X2 +X2X4 +X2X3 +X1X4 +X1X3)   G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)  ¬G1
        + ¬(X4 +X3 +X2 +X1)
3672  G1= ¬(X2X4 +X2X3 +X1X4 +X1X3)    F= ¬(X2X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X3 +X2 +X1)
3673  G1= ¬(X3X4 +X1X3 +X1X2 +X2X4 +X2X3 +X1X4)   G2= ¬(X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X3 +X1X2)  ¬G1
        + ¬(X4 +X3 +X2 +X1)
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3674  G1= ¬(X2X4 +X2X3 +X1X4 +X1X3)     F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X3 +X2 +X1)
3677  G1= ¬(X3X4 +X1 +X2X4 +X2X3)    G2= ¬(X1X4 +X1X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1)  ¬G1+ ¬(X4 +X3 +X2 +X1)
3678  G1= ¬(X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X2X3X4 +X1X2X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2 +X1)
3679  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    G2= ¬(X1X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2X4 +X1X2X3)  ¬G1
        + ¬(X4 +X3 +X2 +X1)
367A  G1= ¬(X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X2X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X3 +X2 +X1)
367B  G1= ¬(X3X4 +X1X3 +X2X4 +X2X3 +X1X4 +X1X2)    G2= ¬(X1X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X3 +X1X2X4)  ¬G1
        + ¬(X4 +X3 +X2 +X1)
367E  G1= ¬(X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X3 +X2 +X1)
367F  G1= ¬(X3X4 +X1 +X2X4 +X2X3)    G2= ¬(X1X4 +X1X3 +X1X2)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1)  ¬G1
        + ¬(X4 +X3 +X2 +X1)
3680  G1= ¬(X3X4 +X1 +X2X4 +X2X3)     F= ¬(X3X4 +X1)  ¬G1+ ¬(X4 +X3 +X2)
3681  G1= ¬(X3X4 +X1 +X2X4 +X2X3)    G2= ¬(X1X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1)  ¬G1+ ¬(X4 +X3 +X2)
3682  G1= ¬(X3X4 +X1X4 +X2X4 +X2X3)     F= ¬(X3X4 +X1X4)  ¬G1+ ¬(X4 +X3 +X2)
3683  G1= ¬(X3X4 +X1 +X2X4 +X2X3)    G2= ¬(X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1)  ¬G1+ ¬(X4 +X3 +X2)
3687  G1= ¬(X3X4 +X1 +X2X4 +X2X3)    G2= ¬(X1X2X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1)  ¬G1
        + ¬(X4 +X3 +X2)
3688  G1= ¬(X3X4 +X1X4 +X1X3 +X2X4 +X2X3 +X1X2)     F= ¬(X3X4 +X1X4 +X1X3)  ¬G1+ ¬(X4 +X3 +X2)
3689  G1= ¬(X3X4 +X1X4 +X1X3 +X2X4 +X2X3 +X1X2)    G2= ¬(X1X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X3)  ¬G1
        + ¬(X4 +X3 +X2)
368A  G1= ¬(X3X4 +X1X4 +X2X4 +X2X3 +X1X2)     F= ¬(X3X4 +X1X4)  ¬G1+ ¬(X4 +X3 +X2)
368B  G1= ¬(X3X4 +X1X4 +X1X3 +X2X4 +X2X3 +X1X2)    G2= ¬(X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X3)  ¬G1
        + ¬(X4 +X3 +X2)
368E  G1= ¬(X3X4 +X2X4 +X2X3 +X1X2)     F= ¬(X3X4)  ¬G1+ ¬(X4 +X3 +X2)
368F  G1= ¬(X3X4 +X1 +X2X4 +X2X3)    G2= ¬(X1X2)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1)  ¬G1+ ¬(X4 +X3 +X2)
3690  G1= ¬(X1X2 +X2X4 +X2X3 +X1X3X4)     F= ¬(X2X3X4 +X1X2)  ¬G1+ ¬(X4 +X3 +X2)
3691  G1= ¬(X3X4 +X1 +X2X4 +X2X3)    G2= ¬(X1X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1)  ¬G1+ ¬(X4 +X3 +X2)
3692  G1= ¬(X2X4 +X2X3 +X1X3X4)     F= ¬(X2X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X3 +X2)
3693  G1= ¬(X3X4 +X1 +X2X4 +X2X3)    G2= ¬(X1X3X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1)  ¬G1
        + ¬(X4 +X3 +X2)
3696  G1= ¬(X2X4 +X2X3 +X1X3X4)     F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X3 +X2)
3697  G1= ¬(X3X4 +X1 +X2X4 +X2X3)    G2= ¬(X1X3X4 +X1X2X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1)  ¬G1
        + ¬(X4 +X3 +X2)
3698  G1= ¬(X2X4 +X2X3 +X1X3X4 +X1X2)     F= ¬(X2X3X4 +X1X2X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
3699  G1= ¬(X3X4 +X1X4 +X1X3 +X2X4 +X2X3 +X1X2)    G2= ¬(X1X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X3)  ¬G1
        + ¬(X4 +X3 +X2)
369A  G1= ¬(X2X4 +X2X3 +X1X3X4 +X1X2)     F= ¬(X2X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X3 +X2)
369B  G1= ¬(X3X4 +X1X4 +X1X3 +X2X4 +X2X3 +X1X2)    G2= ¬(X1X3X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X3)  ¬G1
        + ¬(X4 +X3 +X2)
369E  G1= ¬(X2X4 +X2X3 +X1X3X4 +X1X2)     F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X3 +X2)
369F  G1= ¬(X3X4 +X1 +X2X4 +X2X3)    G2= ¬(X1X3X4 +X1X2)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1)  ¬G1+ ¬(X4 +X3 +X2)
36A0  G1= ¬(X3X4 +X1X4 +X1X2 +X2X4 +X2X3 +X1X3)     F= ¬(X3X4 +X1X4 +X1X2)  ¬G1+ ¬(X4 +X3 +X2)
36A1  G1= ¬(X3X4 +X1X4 +X1X2 +X2X4 +X2X3 +X1X3)    G2= ¬(X1X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X2)  ¬G1
        + ¬(X4 +X3 +X2)
36A2  G1= ¬(X3X4 +X1X4 +X2X4 +X2X3 +X1X3)     F= ¬(X3X4 +X1X4)  ¬G1+ ¬(X4 +X3 +X2)
36A3  G1= ¬(X3X4 +X1X4 +X1X2 +X2X4 +X2X3 +X1X3)    G2= ¬(X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X2)  ¬G1
        + ¬(X4 +X3 +X2)
36A4  G1= ¬(X3X4 +X2X4 +X2X3 +X1X3)     F= ¬(X3X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
36A5  G1= ¬(X3X4 +X1X4 +X1X2 +X2X4 +X2X3 +X1X3)    G2= ¬(X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X2)  ¬G1
        + ¬(X4 +X3 +X2)
36A6  G1= ¬(X3X4 +X2X4 +X2X3 +X1X3)     F= ¬(X3X4)  ¬G1+ ¬(X4 +X3 +X2)
36A7  G1= ¬(X3X4 +X1X4 +X1X2 +X2X4 +X2X3 +X1X3)    G2= ¬(X1X2X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X2)  ¬G1
        + ¬(X4 +X3 +X2)
36A8  G1= ¬(X3X4 +X1X4 +X2X4 +X2X3 +X1X3 +X1X2)     F= ¬(X3X4 +X1X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
36A9  G1= ¬(X3X4 +X1X4 +X2X4 +X2X3 +X1X3 +X1X2)    G2= ¬(X1X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X2X3)  ¬G1
        + ¬(X4 +X3 +X2)
36AA  G1= ¬(X3X4 +X1X4 +X2X4 +X2X3 +X1X3 +X1X2)     F= ¬(X3X4 +X1X4)  ¬G1+ ¬(X4 +X3 +X2)
36AB  G1= ¬(X3X4 +X1X4 +X2X4 +X2X3 +X1X3 +X1X2)    G2= ¬(X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X2X3)  ¬G1
        + ¬(X4 +X3 +X2)
36AC  G1= ¬(X3X4 +X2X4 +X2X3 +X1X3 +X1X2)     F= ¬(X3X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
36AD  G1= ¬(X3X4 +X1X4 +X2X4 +X2X3 +X1X3 +X1X2)    G2= ¬(X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X2X3)  ¬G1
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          + ¬(X4 +X3 +X2)
86AE   G1= ¬(X3X4 +X2X4 +X2X3 +X1X3 +X1X2)     F= ¬(X3X4)   ¬G1+ ¬(X4 +X3 +X2)
86AF   G1= ¬(X3X4 +X1X4 +X1X2 +X2X4 +X2X3 +X1X3)    G2= ¬(X1X2)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X2)   ¬G1
          + ¬(X4 +X3 +X2)
86B0   G1= ¬(X1X2 +X2X4 +X2X3 +X1X3)     F= ¬(X2X3X4 +X1X2)   ¬G1+ ¬(X4 +X3 +X2)
86B1   G1= ¬(X3X4 +X1X4 +X1X2 +X2X4 +X2X3 +X1X3)    G2= ¬(X1X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X2)   ¬G1
          + ¬(X4 +X3 +X2)
86B2   G1= ¬(X2X4 +X2X3 +X1X3)     F= ¬(X2X3X4 +X1X2X4)   ¬G1+ ¬(X4 +X3 +X2)
86B3   G1= ¬(X3X4 +X1 +X2X4 +X2X3)    G2= ¬(X1X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X1)   ¬G1+ ¬(X4 +X3 +X2)
86B4   G1= ¬(X2X4 +X2X3 +X1X3)     F= ¬(X2X3X4 +X1X2X3)   ¬G1+ ¬(X4 +X3 +X2)
86B5   G1= ¬(X3X4 +X1X4 +X1X2 +X2X4 +X2X3 +X1X3)    G2= ¬(X1X3X4 +X1X2X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X2)   ¬G1
          + ¬(X4 +X3 +X2)
86B6   G1= ¬(X2X4 +X2X3 +X1X3)     F= ¬(X2X3X4)   ¬G1+ ¬(X4 +X3 +X2)
86B7   G1= ¬(X3X4 +X1 +X2X4 +X2X3)    G2= ¬(X1X3 +X1X2X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X1)   ¬G1+ ¬(X4 +X3 +X2)
86B8   G1= ¬(X2X4 +X2X3 +X1X3 +X1X2)     F= ¬(X2X3X4 +X1X2X4 +X1X2X3)   ¬G1+ ¬(X4 +X3 +X2)
86B9   G1= ¬(X3X4 +X1X4 +X2X4 +X2X3 +X1X3 +X1X2)    G2= ¬(X1X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X2X3)   ¬G1
          + ¬(X4 +X3 +X2)
86BA   G1= ¬(X2X4 +X2X3 +X1X3 +X1X2)     F= ¬(X2X3X4 +X1X2X4)   ¬G1+ ¬(X4 +X3 +X2)
86BB   G1= ¬(X3X4 +X1X4 +X1X3 +X2X4 +X2X3 +X1X2)    G2= ¬(X1X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X3)   ¬G1
          + ¬(X4 +X3 +X2)
86BC   G1= ¬(X2X4 +X2X3 +X1X3 +X1X2)     F= ¬(X2X3X4 +X1X2X3)   ¬G1+ ¬(X4 +X3 +X2)
86BD   G1= ¬(X3X4 +X1X4 +X2X4 +X2X3 +X1X3 +X1X2)    G2= ¬(X1X3X4 +X1X2X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X2X3)   ¬G1
          + ¬(X4 +X3 +X2)
86BE   G1= ¬(X2X4 +X2X3 +X1X3 +X1X2)     F= ¬(X2X3X4)   ¬G1+ ¬(X4 +X3 +X2)
86BF   G1= ¬(X3X4 +X1 +X2X4 +X2X3)    G2= ¬(X1X3 +X1X2)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X1)   ¬G1+ ¬(X4 +X3 +X2)
86E0   G1= ¬(X3X4 +X1X2 +X2X4 +X2X3 +X1X4 +X1X3)     F= ¬(X3X4 +X1X2)   ¬G1+ ¬(X4 +X3 +X2)
86E1   G1= ¬(X3X4 +X1X2 +X2X4 +X2X3 +X1X4 +X1X3)    G2= ¬(X1X2X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X1X2)   ¬G1
          + ¬(X4 +X3 +X2)
86E2   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)     F= ¬(X3X4 +X1X2X4)   ¬G1+ ¬(X4 +X3 +X2)
86E3   G1= ¬(X3X4 +X1X2 +X2X4 +X2X3 +X1X4 +X1X3)    G2= ¬(X1X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X1X2)   ¬G1
          + ¬(X4 +X3 +X2)
86E6   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)     F= ¬(X3X4)   ¬G1+ ¬(X4 +X3 +X2)
86E7   G1= ¬(X3X4 +X1X2 +X2X4 +X2X3 +X1X4 +X1X3)    G2= ¬(X1X2X4 +X1X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X1X2)   ¬G1
          + ¬(X4 +X3 +X2)
86E8   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X3X4 +X1X2X4 +X1X2X3)   ¬G1+ ¬(X4 +X3 +X2)
86E9   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    G2= ¬(X1X2X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X1X2X4 +X1X2X3)   ¬G1
          + ¬(X4 +X3 +X2)
86EA   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X3X4 +X1X2X4)   ¬G1+ ¬(X4 +X3 +X2)
86EB   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    G2= ¬(X1X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X1X2X4 +X1X2X3)   ¬G1
          + ¬(X4 +X3 +X2)
86EE   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X3X4)   ¬G1+ ¬(X4 +X3 +X2)
86EF   G1= ¬(X3X4 +X1X2 +X2X4 +X2X3 +X1X4 +X1X3)    G2= ¬(X1X2)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X1X2)   ¬G1
          + ¬(X4 +X3 +X2)
86F0   G1= ¬(X1X2 +X2X4 +X2X3 +X1X4 +X1X3)     F= ¬(X2X3X4 +X1X2)   ¬G1+ ¬(X4 +X3 +X2)
86F1   G1= ¬(X3X4 +X1X2 +X2X4 +X2X3 +X1X4 +X1X3)    G2= ¬(X1X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X1X2)   ¬G1
          + ¬(X4 +X3 +X2)
86F2   G1= ¬(X2X4 +X2X3 +X1X4 +X1X3)     F= ¬(X2X3X4 +X1X2X4)   ¬G1+ ¬(X4 +X3 +X2)
86F3   G1= ¬(X3X4 +X1X3 +X1X2 +X2X4 +X2X3 +X1X4)    G2= ¬(X1X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X1X3 +X1X2)   ¬G1
          + ¬(X4 +X3 +X2)
86F6   G1= ¬(X2X4 +X2X3 +X1X4 +X1X3)     F= ¬(X2X3X4)   ¬G1+ ¬(X4 +X3 +X2)
86F7   G1= ¬(X3X4 +X1 +X2X4 +X2X3)    G2= ¬(X1X4 +X1X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X1)   ¬G1+ ¬(X4 +X3 +X2)
86F8   G1= ¬(X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X2X3X4 +X1X2X4 +X1X2X3)   ¬G1+ ¬(X4 +X3 +X2)
86F9   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    G2= ¬(X1X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X1X2X4 +X1X2X3)   ¬G1
          + ¬(X4 +X3 +X2)
86FA   G1= ¬(X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X2X3X4 +X1X2X4)   ¬G1+ ¬(X4 +X3 +X2)
86FB   G1= ¬(X3X4 +X1X3 +X2X4 +X2X3 +X1X4 +X1X2)    G2= ¬(X1X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X1X3 +X1X2X4)   ¬G1
          + ¬(X4 +X3 +X2)
86FE   G1= ¬(X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X2X3X4)   ¬G1+ ¬(X4 +X3 +X2)
86FF   G1= ¬(X3X4 +X1 +X2X4 +X2X3)    G2= ¬(X1X4 +X1X3 +X1X2)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X1)   ¬G1
          + ¬(X4 +X3 +X2)
8776   G1= ¬(X2X4 +X2X3 +X1X4 +X1X3)     F= ¬(X1X2X3X4)   ¬G1+ ¬(X4 +X3 +X2 +X1)
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3777  G1= ¬(X2X4 +X2X3 +X1X4 +X1X3)    F=  ¬G1+ ¬(X4 +X3 +X2 +X1)
3778  G1= ¬(X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    F= ¬(X1X2X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2 +X1)
3779  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2X4 +X1X2X3)  ¬G1
       + ¬(X4 +X3 +X2 +X1)
377A  G1= ¬(X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    F= ¬(X1X2X4)  ¬G1+ ¬(X4 +X3 +X2 +X1)
377B  G1= ¬(X3 +X2X4 +X1X4 +X1X2)    G2= ¬(X2X3 +X1X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1X2X4)   ¬G1+ ¬(X4 +X3 +X2 +X1)
377E  G1= ¬(X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X3 +X2 +X1)
377F  G1= ¬(X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    F=  ¬G1+ ¬(X4 +X3 +X2 +X1)
3780  G1= ¬(X1 +X2X4 +X2X3)    F= ¬(X1)  ¬G1+ ¬(X4 +X3 +X2)
3781  G1= ¬(X3X4 +X1 +X2X4 +X2X3)    G2= ¬(X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1)  ¬G1+ ¬(X4 +X3 +X2)
3782  G1= ¬(X1X4 +X2X4 +X2X3)    F= ¬(X1X4)  ¬G1+ ¬(X4 +X3 +X2)
3783  G1= ¬(X3 +X1 +X2X4)    G2= ¬(X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1)  ¬G1+ ¬(X4 +X3 +X2)
3786  G1= ¬(X1X3X4 +X2X4 +X2X3)    F= ¬(X1X3X4)  ¬G1+ ¬(X4 +X3 +X2)
3788  G1= ¬(X1X4 +X1X3 +X2X4 +X2X3 +X1X2)    F= ¬(X1X4 +X1X3)  ¬G1+ ¬(X4 +X3 +X2)
3789  G1= ¬(X3X4 +X1X4 +X1X3 +X2X4 +X2X3 +X1X2)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X3)  ¬G1
       + ¬(X4 +X3 +X2)
378A  G1= ¬(X1X4 +X2X4 +X2X3 +X1X2)    F= ¬(X1X4)  ¬G1+ ¬(X4 +X3 +X2)
378B  G1= ¬(X3 +X1X4 +X2X4 +X1X2)    G2= ¬(X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1X4)  ¬G1+ ¬(X4 +X3 +X2)
378E  G1= ¬(X1X3X4 +X2X4 +X2X3 +X1X2)    F= ¬(X1X3X4)  ¬G1+ ¬(X4 +X3 +X2)
378F  G1= ¬(X2X4 +X2X3 +X1X2)    F=  ¬G1+ ¬(X4 +X3 +X2)
3790  G1= ¬(X1X2 +X2X4 +X2X3 +X1X3X4)    F= ¬(X1X2)  ¬G1+ ¬(X4 +X3 +X2)
3791  G1= ¬(X3X4 +X1 +X2X4 +X2X3)    G2= ¬(X2X3X4 +X1X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1)  ¬G1
       + ¬(X4 +X3 +X2)
3792  G1= ¬(X2X4 +X2X3 +X1X3X4)    F= ¬(X1X2X4)  ¬G1+ ¬(X4 +X3 +X2)
3793  G1= ¬(X3 +X1 +X2X4)    G2= ¬(X2X3 +X1X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1)  ¬G1+ ¬(X4 +X3 +X2)
3796  G1= ¬(X2X4 +X2X3 +X1X3X4)    F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X3 +X2)
3797  G1= ¬(X2X4 +X2X3 +X1X3X4)    F=  ¬G1+ ¬(X4 +X3 +X2)
3798  G1= ¬(X2X4 +X2X3 +X1X3X4 +X1X2)    F= ¬(X1X2X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
3799  G1= ¬(X3X4 +X1X4 +X1X3 +X2X4 +X2X3 +X1X2)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X3)  ¬G1
       + ¬(X4 +X3 +X2)
379A  G1= ¬(X2X4 +X2X3 +X1X3X4 +X1X2)    F= ¬(X1X2X4)  ¬G1+ ¬(X4 +X3 +X2)
379B  G1= ¬(X3 +X1X4 +X2X4 +X1X2)    G2= ¬(X2X3 +X1X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1X4)   ¬G1+ ¬(X4 +X3 +X2)
379E  G1= ¬(X2X4 +X2X3 +X1X3X4 +X1X2)    F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X3 +X2)
379F  G1= ¬(X2X4 +X2X3 +X1X3X4 +X1X2)    F=  ¬G1+ ¬(X4 +X3 +X2)
37A0  G1= ¬(X1X4 +X1X2 +X2X4 +X2X3 +X1X3)    F= ¬(X1X4 +X1X2)  ¬G1+ ¬(X4 +X3 +X2)
37A1  G1= ¬(X3X4 +X1X4 +X1X2 +X2X4 +X2X3 +X1X3)   G2= ¬(X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X2)  ¬G1
       + ¬(X4 +X3 +X2)
37A2  G1= ¬(X1X4 +X2X4 +X2X3 +X1X3)    F= ¬(X1X4)  ¬G1+ ¬(X4 +X3 +X2)
37A3  G1= ¬(X3X4 +X2X3 +X1X4 +X1X2 +X2X4 +X1X3)   G2= ¬(X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X4 +X1X2)  ¬G1
       + ¬(X4 +X3 +X2)
37A4  G1= ¬(X2X4 +X2X3 +X1X3)    F= ¬(X1X3X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
37A5  G1= ¬(X4 +X1X2 +X2X3 +X1X3)    G2= ¬(X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X2)  ¬G1+ ¬(X4 +X3 +X2)
37A6  G1= ¬(X2X4 +X2X3 +X1X3)    F= ¬(X1X3X4)  ¬G1+ ¬(X4 +X3 +X2)
37A7  G1= ¬(X4 +X2 +X1X3)    G2= ¬(X2X4 +X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2)  ¬G1+ ¬(X4 +X3 +X2)
37A8  G1= ¬(X1X4 +X2X4 +X2X3 +X1X3 +X1X2)    F= ¬(X1X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
37A9  G1= ¬(X3X4 +X1X4 +X2X4 +X2X3 +X1X3 +X1X2)   G2= ¬(X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X2X3)  ¬G1
       + ¬(X4 +X3 +X2)
37AA  G1= ¬(X1X4 +X2X4 +X2X3 +X1X3 +X1X2)    F= ¬(X1X4)  ¬G1+ ¬(X4 +X3 +X2)
37AB  G1= ¬(X3X4 +X2X3 +X1X4 +X2X4 +X1X3 +X1X2)   G2= ¬(X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X4)  ¬G1
       + ¬(X4 +X3 +X2)
37AC  G1= ¬(X2X4 +X2X3 +X1X3 +X1X2)    F= ¬(X1X3X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
37AD  G1= ¬(X4 +X2X3 +X1X3 +X1X2)    G2= ¬(X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
37AE  G1= ¬(X2X4 +X2X3 +X1X3 +X1X2)    F= ¬(X1X3X4)  ¬G1+ ¬(X4 +X3 +X2)
37AF  G1= ¬(X4 +X2 +X1X3)    G2= ¬(X2X4 +X2X3 +X1X2)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2)  ¬G1+ ¬(X4 +X3 +X2)
37B0  G1= ¬(X1X2 +X2X4 +X2X3 +X1X3)    F= ¬(X1X2)  ¬G1+ ¬(X4 +X3 +X2)
37B1  G1= ¬(X3X4 +X1X4 +X1X2 +X2X4 +X2X3 +X1X3)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X2)  ¬G1
       + ¬(X4 +X3 +X2)
37B2  G1= ¬(X2X4 +X2X3 +X1X3)    F= ¬(X1X2X4)  ¬G1+ ¬(X4 +X3 +X2)
37B3  G1= ¬(X3 +X1 +X2X4)    G2= ¬(X2X3 +X1X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1)  ¬G1+ ¬(X4 +X3 +X2)
37B4  G1= ¬(X2X4 +X2X3 +X1X3)    F= ¬(X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
37B5  G1= ¬(X4 +X1X2 +X2X3 +X1X3)    G2= ¬(X2X4 +X1X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X2)  ¬G1+ ¬(X4 +X3 +X2)
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37D5   G1= ¬(X2X4 +X2X3 +X1X3)     F= ¬(X1X2X3X4)   ¬G1+ ¬(X4 +X3 +X2)
37D7   G1= ¬(X2X4 +X2X3 +X1X3)     F=   ¬G1+ ¬(X4 +X3 +X2)
37D8   G1= ¬(X2X4 +X2X3 +X1X3 +X1X2)     F= ¬(X1X2X4 +X1X2X3)   ¬G1+ ¬(X4 +X3 +X2)
37D9   G1= ¬(X3X4 +X1X4 +X2X4 +X2X3 +X1X3 +X1X2)   G2= ¬(X2X3X4 +X1X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X2X3)   ¬G1
          + ¬(X4 +X3 +X2)
37DA   G1= ¬(X2X4 +X2X3 +X1X3 +X1X2)     F= ¬(X1X2X4)   ¬G1+ ¬(X4 +X3 +X2)
37DB   G1= ¬(X3 +X1X4 +X2X4 +X1X2)    G2= ¬(X2X3 +X1X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3 +X1X4)   ¬G1+ ¬(X4 +X3 +X2)
37DC   G1= ¬(X2X4 +X2X3 +X1X3 +X1X2)     F= ¬(X1X2X3)   ¬G1+ ¬(X4 +X3 +X2)
37DD   G1= ¬(X4 +X2X3 +X1X3 +X1X2)    G2= ¬(X2X4 +X1X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X4 +X1X2X3)   ¬G1
          + ¬(X4 +X3 +X2)
37DE   G1= ¬(X2X4 +X2X3 +X1X3 +X1X2)     F= ¬(X1X2X3X4)   ¬G1+ ¬(X4 +X3 +X2)
37DF   G1= ¬(X2X4 +X2X3 +X1X3 +X1X2)     F=   ¬G1+ ¬(X4 +X3 +X2)
37E0   G1= ¬(X1X2 +X2X4 +X2X3 +X1X4 +X1X3)     F= ¬(X1X3X4 +X1X2)   ¬G1+ ¬(X4 +X3 +X2)
37E1   G1= ¬(X3X4 +X1X2 +X2X4 +X2X3 +X1X4 +X1X3)    G2= ¬(X2X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X1X2)   ¬G1
          + ¬(X4 +X3 +X2)
37E2   G1= ¬(X2X4 +X2X3 +X1X4 +X1X3)     F= ¬(X1X3X4 +X1X2X4)   ¬G1+ ¬(X4 +X3 +X2)
37E3   G1= ¬(X3X4 +X2X3 +X1X2 +X2X4 +X1X4 +X1X3)    G2= ¬(X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X2)   ¬G1
          + ¬(X4 +X3 +X2)
37E6   G1= ¬(X2X4 +X2X3 +X1X4 +X1X3)     F= ¬(X1X3X4)   ¬G1+ ¬(X4 +X3 +X2)
37E7   G1= ¬(X3X4 +X2 +X1X4 +X1X3)    G2= ¬(X2X4 +X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X2)   ¬G1+ ¬(X4 +X3 +X2)
37E8   G1= ¬(X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X1X3X4 +X1X2X4 +X1X2X3)   ¬G1+ ¬(X4 +X3 +X2)
37E9   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    G2= ¬(X2X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X1X2X4 +X1X2X3)   ¬G1
          + ¬(X4 +X3 +X2)
37EA   G1= ¬(X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X1X3X4 +X1X2X4)   ¬G1+ ¬(X4 +X3 +X2)
37EB   G1= ¬(X3X4 +X2X3 +X2X4 +X1X4 +X1X3 +X1X2)    G2= ¬(X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X2X3 +X1X2X4)   ¬G1
          + ¬(X4 +X3 +X2)
37EE   G1= ¬(X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X1X3X4)   ¬G1+ ¬(X4 +X3 +X2)
37EF   G1= ¬(X3X4 +X2 +X1X4 +X1X3)    G2= ¬(X2X4 +X2X3 +X1X2)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X2)   ¬G1
          + ¬(X4 +X3 +X2)
37F0   G1= ¬(X1X2 +X2X4 +X2X3 +X1X4 +X1X3)     F= ¬(X1X2)   ¬G1+ ¬(X4 +X3 +X2)
37F1   G1= ¬(X3X4 +X1X2 +X2X4 +X2X3 +X1X4 +X1X3)    G2= ¬(X2X3X4 +X1X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X1X2)   ¬G1
          + ¬(X4 +X3 +X2)
37F2   G1= ¬(X2X4 +X2X3 +X1X4 +X1X3)     F= ¬(X1X2X4)   ¬G1+ ¬(X4 +X3 +X2)
37F3   G1= ¬(X3 +X1X2 +X2X4 +X1X4)    G2= ¬(X2X3 +X1X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3 +X1X2)   ¬G1+ ¬(X4 +X3 +X2)
37F5   G1= ¬(X2X4 +X2X3 +X1X4 +X1X3)     F= ¬(X1X2X3X4)   ¬G1+ ¬(X4 +X3 +X2)
37F7   G1= ¬(X2X4 +X2X3 +X1X4 +X1X3)     F=   ¬G1+ ¬(X4 +X3 +X2)
37F8   G1= ¬(X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X1X2X4 +X1X2X3)   ¬G1+ ¬(X4 +X3 +X2)
37F9   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    G2= ¬(X2X3X4 +X1X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X1X2X4 +X1X2X3)   ¬G1
          + ¬(X4 +X3 +X2)
37FA   G1= ¬(X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X1X2X4)   ¬G1+ ¬(X4 +X3 +X2)
37FB   G1= ¬(X3 +X2X4 +X1X4 +X1X2)    G2= ¬(X2X3 +X1X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3 +X1X2X4)   ¬G1+ ¬(X4 +X3 +X2)
37FE   G1= ¬(X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X1X2X3X4)   ¬G1+ ¬(X4 +X3 +X2)
37FF   G1= ¬(X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F=   ¬G1+ ¬(X4 +X3 +X2)
3880    F= ¬(X4 +X3 +X1X2)
3881   G1= ¬(X1X2X3X4)     F=   ¬G1+ ¬(X4 +X3 +X1X2)
3882   G1= ¬(X4 +X1X2X3)     F= ¬(X4)   ¬G1+ ¬(X4 +X3 +X1X2)
3883   G1= ¬(X1X2X3)     F=   ¬G1+ ¬(X4 +X3 +X1X2)
3886   G1= ¬(X3X4 +X1X2X4 +X1X2X3)     F= ¬(X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
3887   G1= ¬(X1X2X4 +X1X2X3)     F=   ¬G1+ ¬(X4 +X3 +X1X2)
3889   G1= ¬(X1X2X3X4)     F=   ¬G1+ ¬(X4 +X3)
388A   G1= ¬(X4 +X1X2X3)     F= ¬(X4)   ¬G1+ ¬(X4 +X3)
388B   G1= ¬(X1X2X3)     F=   ¬G1+ ¬(X4 +X3)
388E   G1= ¬(X3X4 +X1X2X4 +X1X2X3)     F= ¬(X3X4)   ¬G1+ ¬(X4 +X3)
388F   G1= ¬(X1X2X4 +X1X2X3)     F=   ¬G1+ ¬(X4 +X3)
3890   G1= ¬(X2 +X1X3X4)     F= ¬(X2)   ¬G1+ ¬(X4 +X3 +X1X2)
3891   G1= ¬(X1X3X4)     F=   ¬G1+ ¬(X4 +X3 +X1X2)
3892   G1= ¬(X2X4 +X1X3X4 +X1X2X3)     F= ¬(X2X4)   ¬G1+ ¬(X4 +X3 +X1X2)
3893   G1= ¬(X1X3X4 +X1X2X3)     F=   ¬G1+ ¬(X4 +X3 +X1X2)
3896   G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F= ¬(X2X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
3897   G1= ¬(X1X3X4 +X1X2X4 +X1X2X3)     F=   ¬G1+ ¬(X4 +X3 +X1X2)
3898   G1= ¬(X2 +X1X3X4)     F= ¬(X2)   ¬G1+ ¬(X4 +X3)
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889A   G1= ¬(X2X4 +X1X3X4 +X1X2X3)    F= ¬(X2X4)   ¬G1+ ¬(X4 +X3)
889B   G1= ¬(X1X3X4 +X1X2X3)    F=  ¬G1+ ¬(X4 +X3)
889E   G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)    F= ¬(X2X3X4)   ¬G1+ ¬(X4 +X3)
889F   G1= ¬(X1X3X4 +X1X2X4 +X1X2X3)    F=  ¬G1+ ¬(X4 +X3)
88A0   G1= ¬(X4 +X2 +X1X3)    F= ¬(X4 +X2)   ¬G1+ ¬(X4 +X3 +X1X2)
88A1   G1= ¬(X4 +X2 +X1X3)    G2= ¬(X1X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2)   ¬G1+ ¬(X4 +X3 +X1X2)
88A2   G1= ¬(X4 +X1X3)    F= ¬(X4)   ¬G1+ ¬(X4 +X3 +X1X2)
88A3   G1= ¬(X4 +X2 +X1X3)    G2= ¬(X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2)   ¬G1+ ¬(X4 +X3 +X1X2)
88A4   G1= ¬(X3X4 +X2X3 +X1X3 +X1X2X4)    F= ¬(X3X4 +X2X3)   ¬G1+ ¬(X4 +X3 +X1X2)
88A5   G1= ¬(X4 +X2 +X1X3)    G2= ¬(X1X2X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2)   ¬G1+ ¬(X4 +X3 +X1X2)
88A6   G1= ¬(X3X4 +X1X3 +X1X2X4)    F= ¬(X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
88A7   G1= ¬(X4 +X2 +X1X3)    G2= ¬(X1X2X4 +X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2)   ¬G1+ ¬(X4 +X3 +X1X2)
88A8   G1= ¬(X4 +X2 +X1X3)    F= ¬(X4 +X2)   ¬G1+ ¬(X4 +X3)
88A9   G1= ¬(X4 +X2 +X1X3)    G2= ¬(X1X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2)   ¬G1+ ¬(X4 +X3)
88AB   G1= ¬(X4 +X2 +X1X3)    G2= ¬(X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2)   ¬G1+ ¬(X4 +X3)
88AC   G1= ¬(X3X4 +X2X3 +X1X3 +X1X2X4)    F= ¬(X3X4 +X2X3)   ¬G1+ ¬(X4 +X3)
88AD   G1= ¬(X4 +X2 +X1X3)    G2= ¬(X1X2X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2)   ¬G1+ ¬(X4 +X3)
88AE   G1= ¬(X3X4 +X1X3 +X1X2X4)    F= ¬(X3X4)   ¬G1+ ¬(X4 +X3)
88AF   G1= ¬(X4 +X2 +X1X3)    G2= ¬(X1X2X4 +X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2)   ¬G1+ ¬(X4 +X3)
88B0   G1= ¬(X2 +X1X3)    F= ¬(X2)   ¬G1+ ¬(X4 +X3 +X1X2)
88B1   G1= ¬(X4 +X2 +X1X3)    G2= ¬(X1X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2)   ¬G1+ ¬(X4 +X3 +X1X2)
88B2   G1= ¬(X2X4 +X1X3)    F= ¬(X2X4)   ¬G1+ ¬(X4 +X3 +X1X2)
88B3   G1= ¬(X1X3)    F=  ¬G1+ ¬(X4 +X3 +X1X2)
88B4   G1= ¬(X2X3 +X1X3 +X1X2X4)    F= ¬(X2X3)   ¬G1+ ¬(X4 +X3 +X1X2)
88B5   G1= ¬(X4 +X2 +X1X3)    G2= ¬(X1X3X4 +X1X2X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2)   ¬G1+ ¬(X4 +X3 +X1X2)
88B6   G1= ¬(X2X3X4 +X1X3 +X1X2X4)    F= ¬(X2X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
88B7   G1= ¬(X1X3 +X1X2X4)    F=  ¬G1+ ¬(X4 +X3 +X1X2)
88B8   G1= ¬(X2 +X1X3)    F= ¬(X2)   ¬G1+ ¬(X4 +X3)
88B9   G1= ¬(X4 +X2 +X1X3)    G2= ¬(X1X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2)   ¬G1+ ¬(X4 +X3)
88BA   G1= ¬(X2X4 +X1X3)    F= ¬(X2X4)   ¬G1+ ¬(X4 +X3)
88BC   G1= ¬(X2X3 +X1X3 +X1X2X4)    F= ¬(X2X3)   ¬G1+ ¬(X4 +X3)
88BD   G1= ¬(X4 +X2 +X1X3)    G2= ¬(X1X3X4 +X1X2X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2)   ¬G1+ ¬(X4 +X3)
88BE   G1= ¬(X2X3X4 +X1X3 +X1X2X4)    F= ¬(X2X3X4)   ¬G1+ ¬(X4 +X3)
88BF   G1= ¬(X1X3 +X1X2X4)    F=  ¬G1+ ¬(X4 +X3)
88E0   G1= ¬(X3X4 +X2 +X1X4 +X1X3)    F= ¬(X3X4 +X2)   ¬G1+ ¬(X4 +X3 +X1X2)
88E1   G1= ¬(X3X4 +X2 +X1X4 +X1X3)    G2= ¬(X1X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2)   ¬G1+ ¬(X4 +X3 +X1X2)
88E2   G1= ¬(X3X4 +X2X4 +X1X4 +X1X3)    F= ¬(X3X4 +X2X4)   ¬G1+ ¬(X4 +X3 +X1X2)
88E3   G1= ¬(X3X4 +X2 +X1X4 +X1X3)    G2= ¬(X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2)   ¬G1+ ¬(X4 +X3 +X1X2)
88E6   G1= ¬(X3X4 +X1X4 +X1X3)    F= ¬(X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
88E7   G1= ¬(X3X4 +X2 +X1X4 +X1X3)    G2= ¬(X1X2X4 +X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2)   ¬G1
         + ¬(X4 +X3 +X1X2)
88E8   G1= ¬(X3X4 +X2 +X1X4 +X1X3)    F= ¬(X3X4 +X2)   ¬G1+ ¬(X4 +X3)
88E9   G1= ¬(X3X4 +X2 +X1X4 +X1X3)    G2= ¬(X1X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2)   ¬G1+ ¬(X4 +X3)
88EA   G1= ¬(X3X4 +X2X4 +X1X4 +X1X3)    F= ¬(X3X4 +X2X4)   ¬G1+ ¬(X4 +X3)
88EB   G1= ¬(X3X4 +X2 +X1X4 +X1X3)    G2= ¬(X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2)   ¬G1+ ¬(X4 +X3)
88EF   G1= ¬(X3X4 +X2 +X1X4 +X1X3)    G2= ¬(X1X2X4 +X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2)   ¬G1
         + ¬(X4 +X3)
88F0   G1= ¬(X2 +X1X4 +X1X3)    F= ¬(X2)   ¬G1+ ¬(X4 +X3 +X1X2)
88F1   G1= ¬(X3X4 +X2 +X1X4 +X1X3)    G2= ¬(X1X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2)   ¬G1+ ¬(X4 +X3 +X1X2)
88F2   G1= ¬(X2X4 +X1X4 +X1X3)    F= ¬(X2X4)   ¬G1+ ¬(X4 +X3 +X1X2)
88F3   G1= ¬(X3 +X2 +X1X4)    G2= ¬(X1X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X2)   ¬G1+ ¬(X4 +X3 +X1X2)
88F6   G1= ¬(X2X3X4 +X1X4 +X1X3)    F= ¬(X2X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
88F7   G1= ¬(X1X4 +X1X3)    F=  ¬G1+ ¬(X4 +X3 +X1X2)
88F8   G1= ¬(X2 +X1X4 +X1X3)    F= ¬(X2)   ¬G1+ ¬(X4 +X3)
88F9   G1= ¬(X3X4 +X2 +X1X4 +X1X3)    G2= ¬(X1X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2)   ¬G1+ ¬(X4 +X3)
88FA   G1= ¬(X2X4 +X1X4 +X1X3)    F= ¬(X2X4)   ¬G1+ ¬(X4 +X3)
88FB   G1= ¬(X3 +X2 +X1X4)    G2= ¬(X1X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X2)   ¬G1+ ¬(X4 +X3)
88FE   G1= ¬(X2X3X4 +X1X4 +X1X3)    F= ¬(X2X3X4)   ¬G1+ ¬(X4 +X3)
8990   G1= ¬(X1X2 +X2X3X4 +X1X3X4)    F= ¬(X1X2)   ¬G1+ ¬(X4 +X3 +X1X2)
8991   G1= ¬(X2X3X4 +X1X3X4)    F=  ¬G1+ ¬(X4 +X3 +X1X2)
8992   G1= ¬(X1X2X4 +X2X3X4 +X1X3X4 +X1X2X3)    F= ¬(X1X2X4)   ¬G1+ ¬(X4 +X3 +X1X2)
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3993   G1= ¬(X2X3X4 +X1X3X4 +X1X2X3)     F=  ¬G1+ ¬(X4 +X3 +X1X2)
3995   G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X3 +X1X2)
3997   G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F=  ¬G1+ ¬(X4 +X3 +X1X2)
3998   G1= ¬(X1X2 +X2X3X4 +X1X3X4)     F= ¬(X1X2)  ¬G1+ ¬(X4 +X3)
3999   G1= ¬(X2X3X4 +X1X3X4)     F=  ¬G1+ ¬(X4 +X3)
399A   G1= ¬(X1X2X4 +X2X3X4 +X1X3X4 +X1X2X3)     F= ¬(X1X2X4)  ¬G1+ ¬(X4 +X3)
399B   G1= ¬(X2X3X4 +X1X3X4 +X1X2X3)     F=  ¬G1+ ¬(X4 +X3)
399E   G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X3)
399F   G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F=  ¬G1+ ¬(X4 +X3)
39A0   G1= ¬(X1X4 +X1X2 +X2X3X4 +X1X3)     F= ¬(X1X4 +X1X2)  ¬G1+ ¬(X4 +X3 +X1X2)
39A1   G1= ¬(X4 +X2 +X1X3)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2)  ¬G1+ ¬(X4 +X3 +X1X2)
39A2   G1= ¬(X1X4 +X2X3X4 +X1X3)     F= ¬(X1X4)  ¬G1+ ¬(X4 +X3 +X1X2)
39A3   G1= ¬(X4 +X2 +X1X3)   G2= ¬(X2X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2)  ¬G1+ ¬(X4 +X3 +X1X2)
39A4   G1= ¬(X2X3X4 +X1X3 +X1X2X4)     F= ¬(X1X3X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X1X2)
39A5   G1= ¬(X4 +X2 +X1X3)   G2= ¬(X2X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2)  ¬G1+ ¬(X4 +X3 +X1X2)
39A6   G1= ¬(X2X3X4 +X1X3 +X1X2X4)     F= ¬(X1X3X4)  ¬G1+ ¬(X4 +X3 +X1X2)
39A7   G1= ¬(X4 +X2 +X1X3)   G2= ¬(X2X3X4 +X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2)  ¬G1+ ¬(X4 +X3 +X1X2)
39A8   G1= ¬(X1X4 +X1X2 +X2X3X4 +X1X3)     F= ¬(X1X4 +X1X2)  ¬G1+ ¬(X4 +X3)
39A9   G1= ¬(X4 +X2 +X1X3)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2)  ¬G1+ ¬(X4 +X3)
39AA   G1= ¬(X1X4 +X2X3X4 +X1X3)     F= ¬(X1X4)  ¬G1+ ¬(X4 +X3)
39AB   G1= ¬(X4 +X2 +X1X3)   G2= ¬(X2X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2)  ¬G1+ ¬(X4 +X3)
39AC   G1= ¬(X2X3X4 +X1X3 +X1X2X4)     F= ¬(X1X3X4 +X1X2X3)  ¬G1+ ¬(X4 +X3)
39AD   G1= ¬(X4 +X2 +X1X3)   G2= ¬(X2X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2)  ¬G1+ ¬(X4 +X3)
39AE   G1= ¬(X2X3X4 +X1X3 +X1X2X4)     F= ¬(X1X3X4)  ¬G1+ ¬(X4 +X3)
39AF   G1= ¬(X4 +X2 +X1X3)   G2= ¬(X2X3X4 +X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2)  ¬G1+ ¬(X4 +X3)
39B0   G1= ¬(X1X2 +X2X3X4 +X1X3)     F= ¬(X1X2)  ¬G1+ ¬(X4 +X3 +X1X2)
39B1   G1= ¬(X4 +X2 +X1X3)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2)  ¬G1+ ¬(X4 +X3 +X1X2)
39B2   G1= ¬(X1X2X4 +X2X3X4 +X1X3)     F= ¬(X1X2X4)  ¬G1+ ¬(X4 +X3 +X1X2)
39B3   G1= ¬(X2X3X4 +X1X3)     F=  ¬G1+ ¬(X4 +X3 +X1X2)
39B4   G1= ¬(X2X3X4 +X1X3 +X1X2X4)     F= ¬(X1X2X3)  ¬G1+ ¬(X4 +X3 +X1X2)
39B5   G1= ¬(X4 +X2 +X1X3)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2)  ¬G1+ ¬(X4 +X3 +X1X2)
39B6   G1= ¬(X2X3X4 +X1X3 +X1X2X4)     F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X3 +X1X2)
39B7   G1= ¬(X2X3X4 +X1X3 +X1X2X4)     F=  ¬G1+ ¬(X4 +X3 +X1X2)
39B8   G1= ¬(X1X2 +X2X3X4 +X1X3)     F= ¬(X1X2)  ¬G1+ ¬(X4 +X3)
39B9   G1= ¬(X4 +X2 +X1X3)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2)  ¬G1+ ¬(X4 +X3)
39BA   G1= ¬(X1X2X4 +X2X3X4 +X1X3)     F= ¬(X1X2X4)  ¬G1+ ¬(X4 +X3)
39BB   G1= ¬(X2X3X4 +X1X3)     F=  ¬G1+ ¬(X4 +X3)
39BC   G1= ¬(X2X3X4 +X1X3 +X1X2X4)     F= ¬(X1X2X3)  ¬G1+ ¬(X4 +X3)
39BD   G1= ¬(X4 +X2 +X1X3)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2)  ¬G1+ ¬(X4 +X3)
39BE   G1= ¬(X2X3X4 +X1X3 +X1X2X4)     F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X3)
39BF   G1= ¬(X2X3X4 +X1X3 +X1X2X4)     F=  ¬G1+ ¬(X4 +X3)
39E0   G1= ¬(X1X2 +X2X3X4 +X1X4 +X1X3)     F= ¬(X1X3X4 +X1X2)  ¬G1+ ¬(X4 +X3 +X1X2)
39E1   G1= ¬(X3X4 +X2 +X1X4 +X1X3)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2)  ¬G1+ ¬(X4 +X3 +X1X2)
39E2   G1= ¬(X2X3X4 +X1X4 +X1X3)     F= ¬(X1X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X3 +X1X2)
39E3   G1= ¬(X3X4 +X2 +X1X4 +X1X3)   G2= ¬(X2X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2)  ¬G1
          + ¬(X4 +X3 +X1X2)
39E6   G1= ¬(X2X3X4 +X1X4 +X1X3)     F= ¬(X1X3X4)  ¬G1+ ¬(X4 +X3 +X1X2)
39E7   G1= ¬(X3X4 +X2 +X1X4 +X1X3)   G2= ¬(X2X3X4 +X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2)  ¬G1
          + ¬(X4 +X3 +X1X2)
39E8   G1= ¬(X1X2 +X2X3X4 +X1X4 +X1X3)     F= ¬(X1X3X4 +X1X2)  ¬G1+ ¬(X4 +X3)
39E9   G1= ¬(X3X4 +X2 +X1X4 +X1X3)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2)  ¬G1+ ¬(X4 +X3)
39EA   G1= ¬(X2X3X4 +X1X4 +X1X3)     F= ¬(X1X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X3)
39EB   G1= ¬(X3X4 +X2 +X1X4 +X1X3)   G2= ¬(X2X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2)  ¬G1
          + ¬(X4 +X3)
39EE   G1= ¬(X2X3X4 +X1X4 +X1X3)     F= ¬(X1X3X4)  ¬G1+ ¬(X4 +X3)
39EF   G1= ¬(X3X4 +X2 +X1X4 +X1X3)   G2= ¬(X2X3X4 +X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2)  ¬G1
          + ¬(X4 +X3)
39F0   G1= ¬(X1X2 +X2X3X4 +X1X4 +X1X3)     F= ¬(X1X2)  ¬G1+ ¬(X4 +X3 +X1X2)
39F1   G1= ¬(X3X4 +X2 +X1X4 +X1X3)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2)  ¬G1
          + ¬(X4 +X3 +X1X2)
39F2   G1= ¬(X2X3X4 +X1X4 +X1X3)     F= ¬(X1X2X4)  ¬G1+ ¬(X4 +X3 +X1X2)
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39F5   G1= ¬(X3 +X2 +X1X4)    G2= ¬(X2X3X4 +X1X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X2)   ¬G1+ ¬(X4 +X3 +X1X2)
39F6   G1= ¬(X2X3X4 +X1X4 +X1X3)      F= ¬(X1X2X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
39F7   G1= ¬(X2X3X4 +X1X4 +X1X3)      F=  ¬G1+ ¬(X4 +X3 +X1X2)
39F8   G1= ¬(X1X2 +X2X3X4 +X1X4 +X1X3)      F= ¬(X1X2)   ¬G1+ ¬(X4 +X3)
39F9   G1= ¬(X3X4 +X2 +X1X4 +X1X3)    G2= ¬(X2X3X4 +X1X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2)   ¬G1
          + ¬(X4 +X3)
39FA   G1= ¬(X2X3X4 +X1X4 +X1X3)      F= ¬(X1X2X4)   ¬G1+ ¬(X4 +X3)
39FB   G1= ¬(X3 +X2 +X1X4)    G2= ¬(X2X3X4 +X1X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X2)   ¬G1+ ¬(X4 +X3)
39FE   G1= ¬(X2X3X4 +X1X4 +X1X3)      F= ¬(X1X2X3X4)   ¬G1+ ¬(X4 +X3)
39FF   G1= ¬(X2X3X4 +X1X4 +X1X3)      F=  ¬G1+ ¬(X4 +X3)
3AA0   G1= ¬(X4 +X1X2 +X2X3 +X1X3)      F= ¬(X4 +X1X2)   ¬G1+ ¬(X4 +X3 +X1X2)
3AA1   G1= ¬(X4 +X1X2 +X2X3 +X1X3)    G2= ¬(X1X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X2)   ¬G1+ ¬(X4 +X3 +X1X2)
3AA2   G1= ¬(X4 +X2X3 +X1X3)      F= ¬(X4)   ¬G1+ ¬(X4 +X3 +X1X2)
3AA3   G1= ¬(X4 +X1X2 +X2X3 +X1X3)    G2= ¬(X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X2)   ¬G1+ ¬(X4 +X3 +X1X2)
3AA4   G1= ¬(X3X4 +X2X3 +X1X3 +X1X2X4)      F= ¬(X3X4 +X1X2X3)   ¬G1+ ¬(X4 +X3 +X1X2)
3AA5   G1= ¬(X4 +X1X2 +X2X3 +X1X3)    G2= ¬(X1X2X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X2)   ¬G1+ ¬(X4 +X3 +X1X2)
3AA6   G1= ¬(X3X4 +X2X3 +X1X3 +X1X2X4)      F= ¬(X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
3AA7   G1= ¬(X4 +X1X2 +X2X3 +X1X3)    G2= ¬(X1X2X4 +X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X2)   ¬G1
          + ¬(X4 +X3 +X1X2)
3AA8   G1= ¬(X4 +X1X2 +X2X3 +X1X3)      F= ¬(X4 +X1X2)   ¬G1+ ¬(X4 +X3)
3AA9   G1= ¬(X4 +X1X2 +X2X3 +X1X3)    G2= ¬(X1X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X2)   ¬G1+ ¬(X4 +X3)
3AAA   G1= ¬(X4 +X2X3 +X1X3)      F= ¬(X4)   ¬G1+ ¬(X4 +X3)
3AAB   G1= ¬(X4 +X1X2 +X2X3 +X1X3)    G2= ¬(X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X2)   ¬G1+ ¬(X4 +X3)
3AAC   G1= ¬(X3X4 +X2X3 +X1X3 +X1X2X4)      F= ¬(X3X4 +X1X2X3)   ¬G1+ ¬(X4 +X3)
3AAD   G1= ¬(X4 +X1X2 +X2X3 +X1X3)    G2= ¬(X1X2X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X2)   ¬G1+ ¬(X4 +X3)
3AAE   G1= ¬(X3X4 +X2X3 +X1X3 +X1X2X4)      F= ¬(X3X4)   ¬G1+ ¬(X4 +X3)
3AAF   G1= ¬(X4 +X1X2 +X2X3 +X1X3)    G2= ¬(X1X2X4 +X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X2)   ¬G1
          + ¬(X4 +X3)
3AB0   G1= ¬(X2X4 +X1X2 +X2X3 +X1X3)      F= ¬(X2X4 +X1X2)   ¬G1+ ¬(X4 +X3 +X1X2)
3AB1   G1= ¬(X4 +X1X2 +X2X3 +X1X3)    G2= ¬(X1X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X2)   ¬G1+ ¬(X4 +X3 +X1X2)
3AB2   G1= ¬(X2X4 +X2X3 +X1X3)      F= ¬(X2X4)   ¬G1+ ¬(X4 +X3 +X1X2)
3AB3   G1= ¬(X4 +X1 +X2X3)    G2= ¬(X1X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1)   ¬G1+ ¬(X4 +X3 +X1X2)
3AB4   G1= ¬(X2X3 +X1X3 +X1X2X4)      F= ¬(X2X3X4 +X1X2X3)   ¬G1+ ¬(X4 +X3 +X1X2)
3AB5   G1= ¬(X4 +X1X2 +X2X3 +X1X3)    G2= ¬(X1X3X4 +X1X2X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X2)   ¬G1
          + ¬(X4 +X3 +X1X2)
3AB6   G1= ¬(X2X3 +X1X3 +X1X2X4)      F= ¬(X2X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
3AB7   G1= ¬(X4 +X1 +X2X3)    G2= ¬(X1X3 +X1X2X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1)   ¬G1+ ¬(X4 +X3 +X1X2)
3AB8   G1= ¬(X2X4 +X1X2 +X2X3 +X1X3)      F= ¬(X2X4 +X1X2)   ¬G1+ ¬(X4 +X3)
3AB9   G1= ¬(X4 +X1X2 +X2X3 +X1X3)    G2= ¬(X1X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X2)   ¬G1+ ¬(X4 +X3)
3ABA   G1= ¬(X2X4 +X2X3 +X1X3)      F= ¬(X2X4)   ¬G1+ ¬(X4 +X3)
3ABB   G1= ¬(X4 +X1 +X2X3)    G2= ¬(X1X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1)   ¬G1+ ¬(X4 +X3)
3ABC   G1= ¬(X2X3 +X1X3 +X1X2X4)      F= ¬(X2X3X4 +X1X2X3)   ¬G1+ ¬(X4 +X3)
3ABD   G1= ¬(X4 +X1X2 +X2X3 +X1X3)    G2= ¬(X1X3X4 +X1X2X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X2)   ¬G1
          + ¬(X4 +X3)
3ABE   G1= ¬(X2X3 +X1X3 +X1X2X4)      F= ¬(X2X3X4)   ¬G1+ ¬(X4 +X3)
3ABF   G1= ¬(X4 +X1 +X2X3)    G2= ¬(X1X3 +X1X2X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1)   ¬G1+ ¬(X4 +X3)
3AC0   G1= ¬(X3X4 +X2X4 +X1X3 +X1X2 +X2X3 +X1X4)      F= ¬(X3X4 +X2X4 +X1X3 +X1X2)   ¬G1+ ¬(X4 +X3 +X1X2)
3AC1   G1= ¬(X3X4 +X2X4 +X1X3 +X1X2 +X2X3 +X1X4)    G2= ¬(X1X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)   ¬G1
          + ¬(X4 +X3 +X1X2)
3AC2   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4)      F= ¬(X3X4 +X2X4)   ¬G1+ ¬(X4 +X3 +X1X2)
3AC3   G1= ¬(X3X4 +X2X4 +X1X3 +X1X2 +X2X3 +X1X4)    G2= ¬(X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)   ¬G1
          + ¬(X4 +X3 +X1X2)
3AC6   G1= ¬(X3X4 +X2X3 +X1X4)      F= ¬(X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
3AC7   G1= ¬(X3X4 +X2X4 +X1X3 +X1X2 +X2X3 +X1X4)    G2= ¬(X1X2X4 +X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)   ¬G1
          + ¬(X4 +X3 +X1X2)
3AC8   G1= ¬(X3X4 +X2X4 +X1X3 +X1X2 +X2X3 +X1X4)      F= ¬(X3X4 +X2X4 +X1X3 +X1X2)   ¬G1+ ¬(X4 +X3)
3AC9   G1= ¬(X3X4 +X2X4 +X1X3 +X1X2 +X2X3 +X1X4)    G2= ¬(X1X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)   ¬G1
          + ¬(X4 +X3)
3ACA   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4)      F= ¬(X3X4 +X2X4)   ¬G1+ ¬(X4 +X3)
3ACB   G1= ¬(X3X4 +X2X4 +X1X3 +X1X2 +X2X3 +X1X4)    G2= ¬(X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)   ¬G1
          + ¬(X4 +X3)
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3ACE   G1= ¬(X3X4 +X2X3 +X1X4)     F= ¬(X3X4)   ¬G1+ ¬(X4 +X3)
3ACF   G1= ¬(X3X4 +X2X4 +X1X3 +X1X2 +X2X3 +X1X4)    G2= ¬(X1X2X4 +X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
       + ¬(X4 +X3)
3AD0   G1= ¬(X2X4 +X1X2 +X2X3 +X1X4)     F= ¬(X2X4 +X1X2)   ¬G1+ ¬(X4 +X3 +X1X2)
3AD1   G1= ¬(X3X4 +X2X4 +X1X3 +X1X2 +X2X3 +X1X4)    G2= ¬(X1X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
       + ¬(X4 +X3 +X1X2)
3AD2   G1= ¬(X2X4 +X2X3 +X1X4)     F= ¬(X2X4)   ¬G1+ ¬(X4 +X3 +X1X2)
3AD3   G1= ¬(X3X4 +X2X4 +X1X3 +X1X2 +X2X3 +X1X4)    G2= ¬(X1X3X4 +X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
       + ¬(X4 +X3 +X1X2)
3AD4   G1= ¬(X2X3 +X1X4)     F= ¬(X2X3X4 +X1X2X3)   ¬G1+ ¬(X4 +X3 +X1X2)
3AD5   G1= ¬(X4 +X1 +X2X3)    G2= ¬(X1X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1)   ¬G1+ ¬(X4 +X3 +X1X2)
3AD6   G1= ¬(X2X3 +X1X4)     F= ¬(X2X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
3AD7   G1= ¬(X4 +X1 +X2X3)    G2= ¬(X1X4 +X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1)   ¬G1+ ¬(X4 +X3 +X1X2)
3AD8   G1= ¬(X2X4 +X1X2 +X2X3 +X1X4)     F= ¬(X2X4 +X1X2)   ¬G1+ ¬(X4 +X3)
3AD9   G1= ¬(X3X4 +X2X4 +X1X3 +X1X2 +X2X3 +X1X4)    G2= ¬(X1X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
       + ¬(X4 +X3)
3ADA   G1= ¬(X2X4 +X2X3 +X1X4)     F= ¬(X2X4)   ¬G1+ ¬(X4 +X3)
3ADB   G1= ¬(X3X4 +X2X4 +X1X3 +X1X2 +X2X3 +X1X4)    G2= ¬(X1X3X4 +X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
       + ¬(X4 +X3)
3ADC   G1= ¬(X2X3 +X1X4)     F= ¬(X2X3X4 +X1X2X3)   ¬G1+ ¬(X4 +X3)
3ADD   G1= ¬(X4 +X1 +X2X3)    G2= ¬(X1X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1)   ¬G1+ ¬(X4 +X3)
3ADE   G1= ¬(X2X3 +X1X4)     F= ¬(X2X3X4)   ¬G1+ ¬(X4 +X3)
3ADF   G1= ¬(X4 +X1 +X2X3)    G2= ¬(X1X4 +X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1)   ¬G1+ ¬(X4 +X3)
3AE0   G1= ¬(X3X4 +X2X4 +X1X2 +X2X3 +X1X4 +X1X3)     F= ¬(X3X4 +X2X4 +X1X2)   ¬G1+ ¬(X4 +X3 +X1X2)
3AE1   G1= ¬(X3X4 +X2X4 +X1X2 +X2X3 +X1X4 +X1X3)    G2= ¬(X1X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2)  ¬G1
       + ¬(X4 +X3 +X1X2)
3AE2   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)     F= ¬(X3X4 +X2X4)   ¬G1+ ¬(X4 +X3 +X1X2)
3AE3   G1= ¬(X3X4 +X2X4 +X1X2 +X2X3 +X1X4 +X1X3)    G2= ¬(X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2)  ¬G1
       + ¬(X4 +X3 +X1X2)
3AE4   G1= ¬(X3X4 +X2X3 +X1X4 +X1X3)     F= ¬(X3X4 +X1X2X3)   ¬G1+ ¬(X4 +X3 +X1X2)
3AE5   G1= ¬(X3X4 +X2X4 +X1X2 +X2X3 +X1X4 +X1X3)    G2= ¬(X1X2X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2)  ¬G1
       + ¬(X4 +X3 +X1X2)
3AE6   G1= ¬(X3X4 +X2X3 +X1X4 +X1X3)     F= ¬(X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
3AE7   G1= ¬(X3X4 +X2X4 +X1X2 +X2X3 +X1X4 +X1X3)    G2= ¬(X1X2X4 +X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2)  ¬G1
       + ¬(X4 +X3 +X1X2)
3AE8   G1= ¬(X3X4 +X2X4 +X1X2 +X2X3 +X1X4 +X1X3)     F= ¬(X3X4 +X2X4 +X1X2)   ¬G1+ ¬(X4 +X3)
3AE9   G1= ¬(X3X4 +X2X4 +X1X2 +X2X3 +X1X4 +X1X3)    G2= ¬(X1X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2)  ¬G1
       + ¬(X4 +X3)
3AEA   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)     F= ¬(X3X4 +X2X4)   ¬G1+ ¬(X4 +X3)
3AEB   G1= ¬(X3X4 +X2X4 +X1X2 +X2X3 +X1X4 +X1X3)    G2= ¬(X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2)  ¬G1
       + ¬(X4 +X3)
3AEC   G1= ¬(X3X4 +X2X3 +X1X4 +X1X3)     F= ¬(X3X4 +X1X2X3)   ¬G1+ ¬(X4 +X3)
3AED   G1= ¬(X3X4 +X2X4 +X1X2 +X2X3 +X1X4 +X1X3)    G2= ¬(X1X2X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2)  ¬G1
       + ¬(X4 +X3)
3AEE   G1= ¬(X3X4 +X2X3 +X1X4 +X1X3)     F= ¬(X3X4)   ¬G1+ ¬(X4 +X3)
3AEF   G1= ¬(X3X4 +X2X4 +X1X2 +X2X3 +X1X4 +X1X3)    G2= ¬(X1X2X4 +X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2)  ¬G1
       + ¬(X4 +X3)
3AF0   G1= ¬(X2X4 +X1X2 +X2X3 +X1X4 +X1X3)     F= ¬(X2X4 +X1X2)   ¬G1+ ¬(X4 +X3 +X1X2)
3AF1   G1= ¬(X3X4 +X2X4 +X1X2 +X2X3 +X1X4 +X1X3)    G2= ¬(X1X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2)  ¬G1
       + ¬(X4 +X3 +X1X2)
3AF2   G1= ¬(X2X4 +X2X3 +X1X4 +X1X3)     F= ¬(X2X4)   ¬G1+ ¬(X4 +X3 +X1X2)
3AF3   G1= ¬(X3X4 +X2X4 +X1X3 +X1X2 +X2X3 +X1X4)    G2= ¬(X1X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
       + ¬(X4 +X3 +X1X2)
3AF4   G1= ¬(X2X3 +X1X4 +X1X3)     F= ¬(X2X3X4 +X1X2X3)   ¬G1+ ¬(X4 +X3 +X1X2)
3AF5   G1= ¬(X4 +X1X2 +X2X3 +X1X3)    G2= ¬(X1X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X2)   ¬G1+ ¬(X4 +X3 +X1X2)
3AF6   G1= ¬(X2X3 +X1X4 +X1X3)     F= ¬(X2X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
3AF7   G1= ¬(X4 +X1 +X2X3)    G2= ¬(X1X4 +X1X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1)   ¬G1+ ¬(X4 +X3 +X1X2)
3AF8   G1= ¬(X2X4 +X1X2 +X2X3 +X1X4 +X1X3)     F= ¬(X2X4 +X1X2)   ¬G1+ ¬(X4 +X3)
3AF9   G1= ¬(X3X4 +X2X4 +X1X2 +X2X3 +X1X4 +X1X3)    G2= ¬(X1X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2)  ¬G1
       + ¬(X4 +X3)
3AFA   G1= ¬(X2X4 +X2X3 +X1X4 +X1X3)     F= ¬(X2X4)   ¬G1+ ¬(X4 +X3)
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3AFB   G1= ¬(X3X4 +X2X4 +X1X3 +X1X2 +X2X3 +X1X4)    G2= ¬(X1X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
          + ¬(X4 +X3)
3AFC   G1= ¬(X2X3 +X1X4 +X1X3)      F= ¬(X2X3X4 +X1X2X3)   ¬G1+ ¬(X4 +X3)
3AFD   G1= ¬(X4 +X1X2 +X2X3 +X1X3)    G2= ¬(X1X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X2)   ¬G1+ ¬(X4 +X3)
3AFE   G1= ¬(X2X3 +X1X4 +X1X3)      F= ¬(X2X3X4)   ¬G1+ ¬(X4 +X3)
3AFF   G1= ¬(X4 +X1 +X2X3)     G2= ¬(X1X4 +X1X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1)   ¬G1+ ¬(X4 +X3)
3BB0   G1= ¬(X1X2 +X2X3 +X1X3)      F= ¬(X1X2)   ¬G1+ ¬(X4 +X3 +X1X2)
3BB1   G1= ¬(X4 +X1X2 +X2X3 +X1X3)    G2= ¬(X2X3X4 +X1X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X2)   ¬G1
          + ¬(X4 +X3 +X1X2)
3BB2   G1= ¬(X1X2X4 +X2X3 +X1X3)      F= ¬(X1X2X4)   ¬G1+ ¬(X4 +X3 +X1X2)
3BB3   G1= ¬(X2X3 +X1X3)      F=   ¬G1+ ¬(X4 +X3 +X1X2)
3BB4   G1= ¬(X2X3 +X1X3 +X1X2X4)      F= ¬(X1X2X3)   ¬G1+ ¬(X4 +X3 +X1X2)
3BB5   G1= ¬(X4 +X1X2 +X2X3 +X1X3)    G2= ¬(X2X3X4 +X1X3X4 +X1X2X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X2)   ¬G1
          + ¬(X4 +X3 +X1X2)
3BB6   G1= ¬(X2X3 +X1X3 +X1X2X4)      F= ¬(X1X2X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
3BB7   G1= ¬(X2X3 +X1X3 +X1X2X4)      F=   ¬G1+ ¬(X4 +X3 +X1X2)
3BB8   G1= ¬(X1X2 +X2X3 +X1X3)      F= ¬(X1X2)   ¬G1+ ¬(X4 +X3)
3BB9   G1= ¬(X4 +X1X2 +X2X3 +X1X3)    G2= ¬(X2X3X4 +X1X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X2)   ¬G1
          + ¬(X4 +X3)
3BBA   G1= ¬(X1X2X4 +X2X3 +X1X3)      F= ¬(X1X2X4)   ¬G1+ ¬(X4 +X3)
3BBB   G1= ¬(X2X3 +X1X3)      F=   ¬G1+ ¬(X4 +X3)
3BBC   G1= ¬(X2X3 +X1X3 +X1X2X4)      F= ¬(X1X2X3)   ¬G1+ ¬(X4 +X3)
3BBD   G1= ¬(X4 +X1X2 +X2X3 +X1X3)    G2= ¬(X2X3X4 +X1X3X4 +X1X2X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X2)   ¬G1
          + ¬(X4 +X3)
3BBE   G1= ¬(X2X3 +X1X3 +X1X2X4)      F= ¬(X1X2X3X4)   ¬G1+ ¬(X4 +X3)
3BBF   G1= ¬(X2X3 +X1X3 +X1X2X4)      F=   ¬G1+ ¬(X4 +X3)
3BD0   G1= ¬(X1X2 +X2X3 +X1X4)      F= ¬(X1X2)   ¬G1+ ¬(X4 +X3 +X1X2)
3BD1   G1= ¬(X3X4 +X2X4 +X1X3 +X1X2 +X2X3 +X1X4)    G2= ¬(X2X3X4 +X1X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
          + ¬(X4 +X3 +X1X2)
3BD2   G1= ¬(X2X3 +X1X4)      F= ¬(X1X2X4)   ¬G1+ ¬(X4 +X3 +X1X2)
3BD3   G1= ¬(X3 +X2 +X1X4)     G2= ¬(X2X3 +X1X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X2)   ¬G1+ ¬(X4 +X3 +X1X2)
3BD6   G1= ¬(X2X3 +X1X4)      F= ¬(X1X2X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
3BD7   G1= ¬(X2X3 +X1X4)      F=   ¬G1+ ¬(X4 +X3 +X1X2)
3BD8   G1= ¬(X1X2 +X2X3 +X1X4)      F= ¬(X1X2)   ¬G1+ ¬(X4 +X3)
3BD9   G1= ¬(X3X4 +X2X4 +X1X3 +X1X2 +X2X3 +X1X4)    G2= ¬(X2X3X4 +X1X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
          + ¬(X4 +X3)
3BDA   G1= ¬(X2X3 +X1X4)      F= ¬(X1X2X4)   ¬G1+ ¬(X4 +X3)
3BDB   G1= ¬(X3 +X2 +X1X4)     G2= ¬(X2X3 +X1X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X2)   ¬G1+ ¬(X4 +X3)
3BDE   G1= ¬(X2X3 +X1X4)      F= ¬(X1X2X3X4)   ¬G1+ ¬(X4 +X3)
3BDF   G1= ¬(X2X3 +X1X4)      F=   ¬G1+ ¬(X4 +X3)
3BE0   G1= ¬(X1X2 +X2X3 +X1X4 +X1X3)      F= ¬(X1X3X4 +X1X2)   ¬G1+ ¬(X4 +X3 +X1X2)
3BE1   G1= ¬(X3X4 +X2X4 +X1X2 +X2X3 +X1X4 +X1X3)    G2= ¬(X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2)   ¬G1
          + ¬(X4 +X3 +X1X2)
3BE2   G1= ¬(X2X3 +X1X4 +X1X3)      F= ¬(X1X3X4 +X1X2X4)   ¬G1+ ¬(X4 +X3 +X1X2)
3BE3   G1= ¬(X3X4 +X2 +X1X4 +X1X3)    G2= ¬(X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2)   ¬G1+ ¬(X4 +X3 +X1X2)
3BE4   G1= ¬(X2X3 +X1X4 +X1X3)      F= ¬(X1X3X4 +X1X2X3)   ¬G1+ ¬(X4 +X3 +X1X2)
3BE5   G1= ¬(X3X4 +X2X4 +X1X2 +X2X3 +X1X4 +X1X3)    G2= ¬(X2X3X4 +X1X2X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2)   ¬G1
          + ¬(X4 +X3 +X1X2)
3BE6   G1= ¬(X2X3 +X1X4 +X1X3)      F= ¬(X1X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
3BE7   G1= ¬(X3X4 +X2 +X1X4 +X1X3)    G2= ¬(X2X3 +X1X2X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2)   ¬G1+ ¬(X4 +X3 +X1X2)
3BE8   G1= ¬(X1X2 +X2X3 +X1X4 +X1X3)      F= ¬(X1X3X4 +X1X2)   ¬G1+ ¬(X4 +X3)
3BE9   G1= ¬(X3X4 +X2X4 +X1X2 +X2X3 +X1X4 +X1X3)    G2= ¬(X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2)   ¬G1
          + ¬(X4 +X3)
3BEA   G1= ¬(X2X3 +X1X4 +X1X3)      F= ¬(X1X3X4 +X1X2X4)   ¬G1+ ¬(X4 +X3)
3BEB   G1= ¬(X3X4 +X2 +X1X4 +X1X3)    G2= ¬(X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2)   ¬G1+ ¬(X4 +X3)
3BEC   G1= ¬(X2X3 +X1X4 +X1X3)      F= ¬(X1X3X4 +X1X2X3)   ¬G1+ ¬(X4 +X3)
3BED   G1= ¬(X3X4 +X2X4 +X1X2 +X2X3 +X1X4 +X1X3)    G2= ¬(X2X3X4 +X1X2X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2)   ¬G1
          + ¬(X4 +X3)
3BEE   G1= ¬(X2X3 +X1X4 +X1X3)      F= ¬(X1X3X4)   ¬G1+ ¬(X4 +X3)
3BEF   G1= ¬(X3X4 +X2 +X1X4 +X1X3)    G2= ¬(X2X3 +X1X2X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2)   ¬G1+ ¬(X4 +X3)
3BF0   G1= ¬(X1X2 +X2X3 +X1X4 +X1X3)      F= ¬(X1X2)   ¬G1+ ¬(X4 +X3 +X1X2)
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3BF1  G1= ¬(X3X4 +X2X4 +X1X2 +X2X3 +X1X4 +X1X3)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2)  ¬G1
         + ¬(X4 +X3 +X1X2)
3BF2  G1= ¬(X2X3 +X1X4 +X1X3)    F= ¬(X1X2X4)  ¬G1+ ¬(X4 +X3 +X1X2)
3BF3  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X2X3 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X3 +X1X2)
3BF4  G1= ¬(X2X3 +X1X4 +X1X3)    F= ¬(X1X2X3)  ¬G1+ ¬(X4 +X3 +X1X2)
3BF5  G1= ¬(X4 +X1X2 +X2X3 +X1X3)   G2= ¬(X2X3X4 +X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2)  ¬G1+ ¬(X4 +X3 +X1X2)
3BF6  G1= ¬(X2X3 +X1X4 +X1X3)    F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X3 +X1X2)
3BF7  G1= ¬(X2X3 +X1X4 +X1X3)    F=  ¬G1+ ¬(X4 +X3 +X1X2)
3BF8  G1= ¬(X1X2 +X2X3 +X1X4 +X1X3)    F= ¬(X1X2)  ¬G1+ ¬(X4 +X3)
3BF9  G1= ¬(X3X4 +X2X4 +X1X2 +X2X3 +X1X4 +X1X3)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2)  ¬G1
         + ¬(X4 +X3)
3BFA  G1= ¬(X2X3 +X1X4 +X1X3)    F= ¬(X1X2X4)  ¬G1+ ¬(X4 +X3)
3BFB  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X2X3 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X3)
3BFC  G1= ¬(X2X3 +X1X4 +X1X3)    F= ¬(X1X2X3)  ¬G1+ ¬(X4 +X3)
3BFD  G1= ¬(X4 +X1X2 +X2X3 +X1X3)   G2= ¬(X2X3X4 +X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X1X2)  ¬G1+ ¬(X4 +X3)
3BFE  G1= ¬(X2X3 +X1X4 +X1X3)    F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X3)
3BFF  G1= ¬(X2X3 +X1X4 +X1X3)    F=  ¬G1+ ¬(X4 +X3)
3EE0  G1= ¬(X3X4 +X1X2 +X2X4 +X2X3 +X1X4 +X1X3)    F= ¬(X3X4 +X1X2)  ¬G1+ ¬(X4 +X3 +X1X2)
3EE1  G1= ¬(X3X4 +X1X2 +X2X4 +X2X3 +X1X4 +X1X3)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)  ¬G1
         + ¬(X4 +X3 +X1X2)
3EE2  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)    F= ¬(X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X3 +X1X2)
3EE3  G1= ¬(X3X4 +X1X2 +X2X4 +X2X3 +X1X4 +X1X3)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)  ¬G1
         + ¬(X4 +X3 +X1X2)
3EE6  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)    F= ¬(X3X4)  ¬G1+ ¬(X4 +X3 +X1X2)
3EE7  G1= ¬(X3X4 +X1X2 +X2X4 +X2X3 +X1X4 +X1X3)   G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)  ¬G1
         + ¬(X4 +X3 +X1X2)
3EE8  G1= ¬(X3X4 +X1X2 +X2X4 +X2X3 +X1X4 +X1X3)    F= ¬(X3X4 +X1X2)  ¬G1+ ¬(X4 +X3)
3EE9  G1= ¬(X3X4 +X1X2 +X2X4 +X2X3 +X1X4 +X1X3)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)  ¬G1
         + ¬(X4 +X3)
3EEA  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)    F= ¬(X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X3)
3EEB  G1= ¬(X3X4 +X1X2 +X2X4 +X2X3 +X1X4 +X1X3)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)  ¬G1
         + ¬(X4 +X3)
3EEE  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)    F= ¬(X3X4)  ¬G1+ ¬(X4 +X3)
3EEF  G1= ¬(X3X4 +X1X2 +X2X4 +X2X3 +X1X4 +X1X3)   G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)  ¬G1
         + ¬(X4 +X3)
3EF0  G1= ¬(X1X2 +X2X4 +X2X3 +X1X4 +X1X3)    F= ¬(X2X3X4 +X1X2)  ¬G1+ ¬(X4 +X3 +X1X2)
3EF1  G1= ¬(X3X4 +X1X2 +X2X4 +X2X3 +X1X4 +X1X3)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)  ¬G1
         + ¬(X4 +X3 +X1X2)
3EF2  G1= ¬(X2X4 +X2X3 +X1X4 +X1X3)    F= ¬(X2X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X3 +X1X2)
3EF3  G1= ¬(X3X4 +X1X3 +X1X2 +X2X4 +X2X3 +X1X4)   G2= ¬(X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X3 +X1X2)  ¬G1
         + ¬(X4 +X3 +X1X2)
3EF6  G1= ¬(X2X4 +X2X3 +X1X4 +X1X3)    F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X3 +X1X2)
3EF7  G1= ¬(X3X4 +X1 +X2X4 +X2X3)   G2= ¬(X1X4 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1)  ¬G1+ ¬(X4 +X3 +X1X2)
3EF8  G1= ¬(X1X2 +X2X4 +X2X3 +X1X4 +X1X3)    F= ¬(X2X3X4 +X1X2)  ¬G1+ ¬(X4 +X3)
3EF9  G1= ¬(X3X4 +X1X2 +X2X4 +X2X3 +X1X4 +X1X3)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)  ¬G1
         + ¬(X4 +X3)
3EFA  G1= ¬(X2X4 +X2X3 +X1X4 +X1X3)    F= ¬(X2X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X3)
3EFB  G1= ¬(X3X4 +X1X3 +X1X2 +X2X4 +X2X3 +X1X4)   G2= ¬(X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X3 +X1X2)  ¬G1
         + ¬(X4 +X3)
3EFE  G1= ¬(X2X4 +X2X3 +X1X4 +X1X3)    F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X3)
3EFF  G1= ¬(X3X4 +X1 +X2X4 +X2X3)   G2= ¬(X1X4 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1)  ¬G1+ ¬(X4 +X3)
3FF0  G1= ¬(X1X2 +X2X4 +X2X3 +X1X4 +X1X3)    F= ¬(X1X2)  ¬G1+ ¬(X4 +X3 +X1X2)
3FF1  G1= ¬(X3X4 +X1X2 +X2X4 +X2X3 +X1X4 +X1X3)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)  ¬G1
         + ¬(X4 +X3 +X1X2)
3FF2  G1= ¬(X2X4 +X2X3 +X1X4 +X1X3)    F= ¬(X1X2X4)  ¬G1+ ¬(X4 +X3 +X1X2)
3FF3  G1= ¬(X3 +X1X2 +X2X4 +X1X4)   G2= ¬(X2X3 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1+ ¬(X4 +X3 +X1X2)
3FF6  G1= ¬(X2X4 +X2X3 +X1X4 +X1X3)    F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X3 +X1X2)
3FF7  G1= ¬(X2X4 +X2X3 +X1X4 +X1X3)    F=  ¬G1+ ¬(X4 +X3 +X1X2)
3FF8  G1= ¬(X1X2 +X2X4 +X2X3 +X1X4 +X1X3)    F= ¬(X1X2)  ¬G1+ ¬(X4 +X3)
3FF9  G1= ¬(X3X4 +X1X2 +X2X4 +X2X3 +X1X4 +X1X3)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)  ¬G1
         + ¬(X4 +X3)
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3FFA  G1= ¬(X2X4 +X2X3 +X1X4 +X1X3)   F= ¬(X1X2X4)  ¬G1+ ¬(X4 +X3)
3FFB  G1= ¬(X3 +X1X2 +X2X4 +X1X4)   G2= ¬(X2X3 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1+ ¬(X4 +X3)
3FFE  G1= ¬(X2X4 +X2X3 +X1X4 +X1X3)    F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X3)
3FFF  G1= ¬(X2X4 +X2X3 +X1X4 +X1X3)    F=  ¬G1+ ¬(X4 +X3)
9663  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    F= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2 +X1)
9669  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)  ¬G1
        + ¬(X4 +X3 +X2 +X1)
966A  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    F= ¬(X2X3X4 +X1X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X3 +X2 +X1)
966B  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)  ¬G1
        + ¬(X4 +X3 +X2 +X1)
966E  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    F= ¬(X2X3X4 +X1X3X4)  ¬G1+ ¬(X4 +X3 +X2 +X1)
966F  G1= ¬(X1X2 +X3X4 +X2X4 +X2X3 +X1X4 +X1X3)   G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3X4 +X1X2)  ¬G1
        + ¬(X4 +X3 +X2 +X1)
967E  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X3 +X2 +X1)
967F  G1= ¬(X1 +X3X4 +X2X4 +X2X3)   G2= ¬(X1X4 +X1X3 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1)  ¬G1
        + ¬(X4 +X3 +X2 +X1)
9680  G1= ¬(X1 +X3X4 +X2X4 +X2X3)    F= ¬(X2X3X4 +X1)  ¬G1+ ¬(X4 +X3 +X2)
9681  G1= ¬(X1 +X3X4 +X2X4 +X2X3)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1)  ¬G1+ ¬(X4 +X3 +X2)
9682  G1= ¬(X1X4 +X3X4 +X2X4 +X2X3)    F= ¬(X2X3X4 +X1X4)  ¬G1+ ¬(X4 +X3 +X2)
9683  G1= ¬(X1 +X3X4 +X2X4 +X2X3)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1)  ¬G1+ ¬(X4 +X3 +X2)
9686  G1= ¬(X3X4 +X2X4 +X2X3)    F= ¬(X2X3X4 +X1X3X4)  ¬G1+ ¬(X4 +X3 +X2)
9687  G1= ¬(X1 +X3X4 +X2X4 +X2X3)   G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1)  ¬G1
        + ¬(X4 +X3 +X2)
9688  G1= ¬(X1X4 +X1X3 +X3X4 +X2X4 +X2X3 +X1X2)    F= ¬(X2X3X4 +X1X4 +X1X3)  ¬G1+ ¬(X4 +X3 +X2)
9689  G1= ¬(X1X4 +X1X3 +X3X4 +X2X4 +X2X3 +X1X2)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X4 +X1X3)  ¬G1
        + ¬(X4 +X3 +X2)
968A  G1= ¬(X1X4 +X3X4 +X2X4 +X2X3 +X1X2)    F= ¬(X2X3X4 +X1X4)  ¬G1+ ¬(X4 +X3 +X2)
968B  G1= ¬(X1X4 +X1X3 +X3X4 +X2X4 +X2X3 +X1X2)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X4 +X1X3)  ¬G1
        + ¬(X4 +X3 +X2)
968E  G1= ¬(X3X4 +X2X4 +X2X3 +X1X2)    F= ¬(X2X3X4 +X1X3X4)  ¬G1+ ¬(X4 +X3 +X2)
968F  G1= ¬(X1 +X3X4 +X2X4 +X2X3)   G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1)  ¬G1+ ¬(X4 +X3 +X2)
9697  G1= ¬(X1 +X3X4 +X2X4 +X2X3)   G2= ¬(X1X3X4 +X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1)  ¬G1
        + ¬(X4 +X3 +X2)
9698  G1= ¬(X3X4 +X2X4 +X2X3 +X1X2)    F= ¬(X2X3X4 +X1X2X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
9699  G1= ¬(X1X4 +X1X3 +X3X4 +X2X4 +X2X3 +X1X2)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X4 +X1X3)  ¬G1
        + ¬(X4 +X3 +X2)
969A  G1= ¬(X3X4 +X2X4 +X2X3 +X1X2)    F= ¬(X2X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X3 +X2)
969B  G1= ¬(X1X4 +X1X3 +X3X4 +X2X4 +X2X3 +X1X2)   G2= ¬(X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X4 +X1X3)  ¬G1
        + ¬(X4 +X3 +X2)
969E  G1= ¬(X3X4 +X2X4 +X2X3 +X1X2)    F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X3 +X2)
969F  G1= ¬(X1 +X3X4 +X2X4 +X2X3)   G2= ¬(X1X3X4 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1)  ¬G1
        + ¬(X4 +X3 +X2)
96A8  G1= ¬(X1X4 +X3X4 +X2X4 +X2X3 +X1X3 +X1X2)    F= ¬(X2X3X4 +X1X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
96A9  G1= ¬(X1X4 +X3X4 +X2X4 +X2X3 +X1X3 +X1X2)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X4 +X1X2X3)  ¬G1
        + ¬(X4 +X3 +X2)
96AA  G1= ¬(X1X4 +X3X4 +X2X4 +X2X3 +X1X3 +X1X2)    F= ¬(X2X3X4 +X1X4)  ¬G1+ ¬(X4 +X3 +X2)
96AB  G1= ¬(X1X4 +X3X4 +X2X4 +X2X3 +X1X3 +X1X2)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X4 +X1X2X3)  ¬G1
        + ¬(X4 +X3 +X2)
96AC  G1= ¬(X3X4 +X2X4 +X2X3 +X1X3 +X1X2)    F= ¬(X2X3X4 +X1X3X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
96AD  G1= ¬(X1X4 +X3X4 +X2X4 +X2X3 +X1X3 +X1X2)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X4 +X1X2X3)  ¬G1
        + ¬(X4 +X3 +X2)
96AE  G1= ¬(X3X4 +X2X4 +X2X3 +X1X3 +X1X2)    F= ¬(X2X3X4 +X1X3X4)  ¬G1+ ¬(X4 +X3 +X2)
96AF  G1= ¬(X1X4 +X1X2 +X3X4 +X2X4 +X2X3 +X1X3)   G2= ¬(X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X4 +X1X2)  ¬G1
        + ¬(X4 +X3 +X2)
96BC  G1= ¬(X3X4 +X2X4 +X2X3 +X1X3 +X1X2)    F= ¬(X2X3X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
96BD  G1= ¬(X1X4 +X3X4 +X2X4 +X2X3 +X1X3 +X1X2)   G2= ¬(X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X4 +X1X2X3)  ¬G1
        + ¬(X4 +X3 +X2)
96BE  G1= ¬(X3X4 +X2X4 +X2X3 +X1X3 +X1X2)    F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X3 +X2)
96BF  G1= ¬(X1 +X3X4 +X2X4 +X2X3)   G2= ¬(X1X3 +X1X2)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1)  ¬G1+ ¬(X4 +X3 +X2)
96E8  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)    F= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
96E9  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)  ¬G1
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         + ¬(X4 +X3 +X2)
96EA   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X2X3X4 +X1X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X3 +X2)
96EB   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   G2= ¬(X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)  ¬G1
         + ¬(X4 +X3 +X2)
96EE   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X2X3X4 +X1X3X4)  ¬G1+ ¬(X4 +X3 +X2)
96EF   G1= ¬(X1X2 +X3X4 +X2X4 +X2X3 +X1X4 +X1X3)   G2= ¬(X1X2)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3X4 +X1X2)  ¬G1
         + ¬(X4 +X3 +X2)
96FE   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X3 +X2)
96FF   G1= ¬(X1 +X3X4 +X2X4 +X2X3)   G2= ¬(X1X4 +X1X3 +X1X2)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1)  ¬G1
         + ¬(X4 +X3 +X2)
977E   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X3 +X2 +X1)
977F   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F=  ¬G1+ ¬(X4 +X3 +X2 +X1)
9780   G1= ¬(X1 +X3X4 +X2X4 +X2X3)     F= ¬(X1)  ¬G1+ ¬(X4 +X3 +X2)
9781   G1= ¬(X1 +X3X4 +X2X4 +X2X3)   G2= ¬(X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1)  ¬G1+ ¬(X4 +X3 +X2)
9782   G1= ¬(X1X4 +X3X4 +X2X4 +X2X3)     F= ¬(X1X4)  ¬G1+ ¬(X4 +X3 +X2)
9783   G1= ¬(X2X3 +X1 +X3X4 +X2X4)   G2= ¬(X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1)  ¬G1+ ¬(X4 +X3 +X2)
9786   G1= ¬(X3X4 +X2X4 +X2X3)     F= ¬(X1X3X4)  ¬G1+ ¬(X4 +X3 +X2)
9787   G1= ¬(X2 +X1 +X3X4)   G2= ¬(X2X4 +X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2 +X1)  ¬G1+ ¬(X4 +X3 +X2)
9788   G1= ¬(X1X4 +X1X3 +X3X4 +X2X4 +X2X3 +X1X2)     F= ¬(X1X4 +X1X3)  ¬G1+ ¬(X4 +X3 +X2)
9789   G1= ¬(X1X4 +X1X3 +X3X4 +X2X4 +X2X3 +X1X2)   G2= ¬(X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X4 +X1X3)  ¬G1
         + ¬(X4 +X3 +X2)
978A   G1= ¬(X1X4 +X3X4 +X2X4 +X2X3 +X1X2)     F= ¬(X1X4)  ¬G1+ ¬(X4 +X3 +X2)
978B   G1= ¬(X2X3 +X1X4 +X1X3 +X3X4 +X2X4 +X1X2)   G2= ¬(X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X4 +X1X3)  ¬G1
         + ¬(X4 +X3 +X2)
978E   G1= ¬(X3X4 +X2X4 +X2X3 +X1X2)     F= ¬(X1X3X4)  ¬G1+ ¬(X4 +X3 +X2)
978F   G1= ¬(X2 +X1 +X3X4)   G2= ¬(X2X4 +X2X3 +X1X2)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2 +X1)  ¬G1+ ¬(X4 +X3 +X2)
9796   G1= ¬(X3X4 +X2X4 +X2X3)     F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X3 +X2)
9798   G1= ¬(X3X4 +X2X4 +X2X3 +X1X2)     F= ¬(X1X2X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
9799   G1= ¬(X3X4 +X1X4 +X1X3 +X2X4 +X2X3 +X1X2)   G2= ¬(X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X1X4 +X1X3)  ¬G1
         + ¬(X4 +X3 +X2)
979A   G1= ¬(X3X4 +X2X4 +X2X3 +X1X2)     F= ¬(X1X2X4)  ¬G1+ ¬(X4 +X3 +X2)
979B   G1= ¬(X3 +X1X4 +X2X4 +X1X2)   G2= ¬(X3X4 +X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1X4)  ¬G1+ ¬(X4 +X3 +X2)
979E   G1= ¬(X3X4 +X2X4 +X2X3 +X1X2)     F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X3 +X2)
979F   G1= ¬(X3X4 +X2X4 +X2X3 +X1X2)     F=  ¬G1+ ¬(X4 +X3 +X2)
97A8   G1= ¬(X1X4 +X3X4 +X2X4 +X2X3 +X1X3 +X1X2)     F= ¬(X1X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
97A9   G1= ¬(X1X4 +X3X4 +X2X4 +X2X3 +X1X3 +X1X2)   G2= ¬(X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X4 +X1X2X3)  ¬G1
         + ¬(X4 +X3 +X2)
97AA   G1= ¬(X1X4 +X3X4 +X2X4 +X2X3 +X1X3 +X1X2)     F= ¬(X1X4)  ¬G1+ ¬(X4 +X3 +X2)
97AB   G1= ¬(X2X3 +X1X4 +X3X4 +X2X4 +X1X3 +X1X2)   G2= ¬(X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X4)  ¬G1
         + ¬(X4 +X3 +X2)
97AC   G1= ¬(X3X4 +X2X4 +X2X3 +X1X3 +X1X2)     F= ¬(X1X3X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
97AD   G1= ¬(X2X4 +X1X4 +X3X4 +X2X3 +X1X3 +X1X2)   G2= ¬(X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X2X3)  ¬G1
         + ¬(X4 +X3 +X2)
97AE   G1= ¬(X3X4 +X2X4 +X2X3 +X1X3 +X1X2)     F= ¬(X1X3X4)  ¬G1+ ¬(X4 +X3 +X2)
97AF   G1= ¬(X2 +X1X4 +X3X4 +X1X3)   G2= ¬(X2X4 +X2X3 +X1X2)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2 +X1X4)  ¬G1
         + ¬(X4 +X3 +X2)
97BC   G1= ¬(X3X4 +X2X4 +X2X3 +X1X3 +X1X2)     F= ¬(X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
97BD   G1= ¬(X4 +X2X3 +X1X3 +X1X2)   G2= ¬(X3X4 +X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
97BE   G1= ¬(X3X4 +X2X4 +X2X3 +X1X3 +X1X2)     F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X3 +X2)
97BF   G1= ¬(X3X4 +X2X4 +X2X3 +X1X3 +X1X2)     F=  ¬G1+ ¬(X4 +X3 +X2)
97E8   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X1X3X4 +X1X2X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X2)
97E9   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)   G2= ¬(X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)  ¬G1
         + ¬(X4 +X3 +X2)
97EA   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X1X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X3 +X2)
97EB   G1= ¬(X2X3 +X3X4 +X2X4 +X1X4 +X1X3 +X1X2)   G2= ¬(X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3X4 +X1X2X4)  ¬G1
         + ¬(X4 +X3 +X2)
97EE   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X1X3X4)  ¬G1+ ¬(X4 +X3 +X2)
97EF   G1= ¬(X2 +X3X4 +X1X4 +X1X3)   G2= ¬(X2X4 +X2X3 +X1X2)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2 +X1X3X4)  ¬G1
         + ¬(X4 +X3 +X2)
97FE   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X3 +X2)
97FF   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)     F=  ¬G1+ ¬(X4 +X3 +X2)
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9880  G1= ¬(X2 +X1 +X3X4)     F= ¬(X2 +X1)   ¬G1+ ¬(X4 +X3 +X1X2)
9881  G1= ¬(X2 +X1 +X3X4)    G2= ¬(X1X2X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1)   ¬G1+ ¬(X4 +X3 +X1X2)
9882  G1= ¬(X2X4 +X1X4 +X3X4 +X1X2X3)      F= ¬(X2X4 +X1X4)   ¬G1+ ¬(X4 +X3 +X1X2)
9883  G1= ¬(X2 +X1 +X3X4)    G2= ¬(X1X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1)   ¬G1+ ¬(X4 +X3 +X1X2)
9886  G1= ¬(X3X4 +X1X2X4 +X1X2X3)      F= ¬(X2X3X4 +X1X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
9887  G1= ¬(X2 +X1 +X3X4)    G2= ¬(X1X2X4 +X1X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1)   ¬G1+ ¬(X4 +X3 +X1X2)
9888  G1= ¬(X2 +X1 +X3X4)     F= ¬(X2 +X1)   ¬G1+ ¬(X4 +X3)
9889  G1= ¬(X2 +X1 +X3X4)    G2= ¬(X1X2X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1)   ¬G1+ ¬(X4 +X3)
988A  G1= ¬(X2X4 +X1X4 +X3X4 +X1X2X3)      F= ¬(X2X4 +X1X4)   ¬G1+ ¬(X4 +X3)
988B  G1= ¬(X2 +X1 +X3X4)    G2= ¬(X1X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1)   ¬G1+ ¬(X4 +X3)
988E  G1= ¬(X3X4 +X1X2X4 +X1X2X3)      F= ¬(X2X3X4 +X1X3X4)   ¬G1+ ¬(X4 +X3)
988F  G1= ¬(X2 +X1 +X3X4)    G2= ¬(X1X2X4 +X1X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1)   ¬G1+ ¬(X4 +X3)
9890  G1= ¬(X2 +X3X4)     F= ¬(X2)   ¬G1+ ¬(X4 +X3 +X1X2)
9891  G1= ¬(X2 +X1 +X3X4)    G2= ¬(X1X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1)   ¬G1+ ¬(X4 +X3 +X1X2)
9892  G1= ¬(X2X4 +X3X4 +X1X2X3)      F= ¬(X2X4)   ¬G1+ ¬(X4 +X3 +X1X2)
9893  G1= ¬(X2 +X1 +X3X4)    G2= ¬(X1X3X4 +X1X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1)   ¬G1+ ¬(X4 +X3 +X1X2)
9896  G1= ¬(X3X4 +X1X2X4 +X1X2X3)      F= ¬(X2X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
9897  G1= ¬(X2 +X1 +X3X4)    G2= ¬(X1X3X4 +X1X2X4 +X1X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1)   ¬G1+ ¬(X4 +X3 +X1X2)
9899  G1= ¬(X2 +X1 +X3X4)    G2= ¬(X1X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1)   ¬G1+ ¬(X4 +X3)
989A  G1= ¬(X2X4 +X3X4 +X1X2X3)      F= ¬(X2X4)   ¬G1+ ¬(X4 +X3)
989B  G1= ¬(X2 +X1 +X3X4)    G2= ¬(X1X3X4 +X1X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1)   ¬G1+ ¬(X4 +X3)
989E  G1= ¬(X3X4 +X1X2X4 +X1X2X3)      F= ¬(X2X3X4)   ¬G1+ ¬(X4 +X3)
989F  G1= ¬(X2 +X1 +X3X4)    G2= ¬(X1X3X4 +X1X2X4 +X1X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1)   ¬G1+ ¬(X4 +X3)
98A0  G1= ¬(X2 +X1X4 +X3X4 +X1X3)     F= ¬(X2 +X1X4)   ¬G1+ ¬(X4 +X3 +X1X2)
98A1  G1= ¬(X2 +X1X4 +X3X4 +X1X3)    G2= ¬(X1X2X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1X4)   ¬G1+ ¬(X4 +X3 +X1X2)
98A2  G1= ¬(X2X4 +X1X4 +X3X4 +X1X3)      F= ¬(X2X4 +X1X4)   ¬G1+ ¬(X4 +X3 +X1X2)
98A3  G1= ¬(X2 +X1X4 +X3X4 +X1X3)    G2= ¬(X1X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1X4)   ¬G1+ ¬(X4 +X3 +X1X2)
98A4  G1= ¬(X2X3 +X3X4 +X1X3 +X1X2X4)      F= ¬(X2X3 +X1X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
98A5  G1= ¬(X2 +X1X4 +X3X4 +X1X3)    G2= ¬(X1X2X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1X4)   ¬G1+ ¬(X4 +X3 +X1X2)
98A6  G1= ¬(X3X4 +X1X3 +X1X2X4)      F= ¬(X2X3X4 +X1X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
98A7  G1= ¬(X2 +X1X4 +X3X4 +X1X3)    G2= ¬(X1X2X4 +X1X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1X4)   ¬G1
        + ¬(X4 +X3 +X1X2)
98A8  G1= ¬(X2 +X1X4 +X3X4 +X1X3)     F= ¬(X2 +X1X4)   ¬G1+ ¬(X4 +X3)
98A9  G1= ¬(X2 +X1X4 +X3X4 +X1X3)    G2= ¬(X1X2X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1X4)   ¬G1+ ¬(X4 +X3)
98AA  G1= ¬(X2X4 +X1X4 +X3X4 +X1X3)      F= ¬(X2X4 +X1X4)   ¬G1+ ¬(X4 +X3)
98AB  G1= ¬(X2 +X1X4 +X3X4 +X1X3)    G2= ¬(X1X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1X4)   ¬G1+ ¬(X4 +X3)
98AC  G1= ¬(X2X3 +X3X4 +X1X3 +X1X2X4)      F= ¬(X2X3 +X1X3X4)   ¬G1+ ¬(X4 +X3)
98AD  G1= ¬(X2 +X1X4 +X3X4 +X1X3)    G2= ¬(X1X2X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1X4)   ¬G1+ ¬(X4 +X3)
98AE  G1= ¬(X3X4 +X1X3 +X1X2X4)      F= ¬(X2X3X4 +X1X3X4)   ¬G1+ ¬(X4 +X3)
98AF  G1= ¬(X2 +X1X4 +X3X4 +X1X3)    G2= ¬(X1X2X4 +X1X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1X4)   ¬G1
        + ¬(X4 +X3)
98B0  G1= ¬(X2 +X3X4 +X1X3)     F= ¬(X2)   ¬G1+ ¬(X4 +X3 +X1X2)
98B1  G1= ¬(X2 +X1X4 +X3X4 +X1X3)    G2= ¬(X1X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1X4)   ¬G1+ ¬(X4 +X3 +X1X2)
98B2  G1= ¬(X2X4 +X3X4 +X1X3)     F= ¬(X2X4)   ¬G1+ ¬(X4 +X3 +X1X2)
98B3  G1= ¬(X2 +X1 +X3X4)    G2= ¬(X1X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1)   ¬G1+ ¬(X4 +X3 +X1X2)
98B4  G1= ¬(X2X3 +X3X4 +X1X3 +X1X2X4)      F= ¬(X2X3)   ¬G1+ ¬(X4 +X3 +X1X2)
98B5  G1= ¬(X2 +X1X4 +X3X4 +X1X3)    G2= ¬(X1X3X4 +X1X2X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1X4)   ¬G1
        + ¬(X4 +X3 +X1X2)
98B6  G1= ¬(X3X4 +X1X3 +X1X2X4)     F= ¬(X2X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
98B7  G1= ¬(X2 +X1 +X3X4)    G2= ¬(X1X3 +X1X2X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1)   ¬G1+ ¬(X4 +X3 +X1X2)
98B8  G1= ¬(X2 +X3X4 +X1X3)     F= ¬(X2)   ¬G1+ ¬(X4 +X3)
98B9  G1= ¬(X2 +X1X4 +X3X4 +X1X3)    G2= ¬(X1X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1X4)   ¬G1+ ¬(X4 +X3)
98BA  G1= ¬(X2X4 +X3X4 +X1X3)     F= ¬(X2X4)   ¬G1+ ¬(X4 +X3)
98BB  G1= ¬(X2 +X1 +X3X4)    G2= ¬(X1X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1)   ¬G1+ ¬(X4 +X3)
98BC  G1= ¬(X2X3 +X3X4 +X1X3 +X1X2X4)     F= ¬(X2X3)   ¬G1+ ¬(X4 +X3)
98BD  G1= ¬(X2 +X1X4 +X3X4 +X1X3)    G2= ¬(X1X3X4 +X1X2X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1X4)   ¬G1
        + ¬(X4 +X3)
98BE  G1= ¬(X3X4 +X1X3 +X1X2X4)     F= ¬(X2X3X4)   ¬G1+ ¬(X4 +X3)
98BF  G1= ¬(X2 +X1 +X3X4)    G2= ¬(X1X3 +X1X2X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1)   ¬G1+ ¬(X4 +X3)
98E0  G1= ¬(X2 +X3X4 +X1X4 +X1X3)      F= ¬(X2 +X1X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
98E1  G1= ¬(X2 +X3X4 +X1X4 +X1X3)    G2= ¬(X1X2X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
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98E2   G1= ¬(X2X4 +X3X4 +X1X4 +X1X3)     F= ¬(X2X4 +X1X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
98E3   G1= ¬(X2 +X3X4 +X1X4 +X1X3)    G2= ¬(X1X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
98E6   G1= ¬(X3X4 +X1X4 +X1X3)     F= ¬(X2X3X4 +X1X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
98E7   G1= ¬(X2 +X3X4 +X1X4 +X1X3)    G2= ¬(X1X2X4 +X1X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1X3X4)   ¬G1
         + ¬(X4 +X3 +X1X2)
98E8   G1= ¬(X2 +X3X4 +X1X4 +X1X3)     F= ¬(X2 +X1X3X4)   ¬G1+ ¬(X4 +X3)
98E9   G1= ¬(X2 +X3X4 +X1X4 +X1X3)    G2= ¬(X1X2X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1X3X4)   ¬G1+ ¬(X4 +X3)
98EA   G1= ¬(X2X4 +X3X4 +X1X4 +X1X3)     F= ¬(X2X4 +X1X3X4)   ¬G1+ ¬(X4 +X3)
98EB   G1= ¬(X2 +X3X4 +X1X4 +X1X3)    G2= ¬(X1X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1X3X4)   ¬G1+ ¬(X4 +X3)
98EE   G1= ¬(X3X4 +X1X4 +X1X3)     F= ¬(X2X3X4 +X1X3X4)   ¬G1+ ¬(X4 +X3)
98EF   G1= ¬(X2 +X3X4 +X1X4 +X1X3)    G2= ¬(X1X2X4 +X1X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1X3X4)   ¬G1
         + ¬(X4 +X3)
98F0   G1= ¬(X2 +X3X4 +X1X4 +X1X3)     F= ¬(X2)   ¬G1+ ¬(X4 +X3 +X1X2)
98F1   G1= ¬(X2 +X3X4 +X1X4 +X1X3)    G2= ¬(X1X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
98F2   G1= ¬(X2X4 +X3X4 +X1X4 +X1X3)     F= ¬(X2X4)   ¬G1+ ¬(X4 +X3 +X1X2)
98F3   G1= ¬(X2 +X1X3 +X3X4 +X1X4)    G2= ¬(X1X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1X3)   ¬G1+ ¬(X4 +X3 +X1X2)
98F6   G1= ¬(X3X4 +X1X4 +X1X3)     F= ¬(X2X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
98F7   G1= ¬(X2 +X1 +X3X4)    G2= ¬(X1X4 +X1X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1)   ¬G1+ ¬(X4 +X3 +X1X2)
98F8   G1= ¬(X2 +X3X4 +X1X4 +X1X3)     F= ¬(X2)   ¬G1+ ¬(X4 +X3)
98F9   G1= ¬(X2 +X3X4 +X1X4 +X1X3)    G2= ¬(X1X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1X3X4)   ¬G1+ ¬(X4 +X3)
98FA   G1= ¬(X2X4 +X3X4 +X1X4 +X1X3)     F= ¬(X2X4)   ¬G1+ ¬(X4 +X3)
98FB   G1= ¬(X2 +X1X3 +X3X4 +X1X4)    G2= ¬(X1X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1X3)   ¬G1+ ¬(X4 +X3)
98FE   G1= ¬(X3X4 +X1X4 +X1X3)     F= ¬(X2X3X4)   ¬G1+ ¬(X4 +X3)
98FF   G1= ¬(X2 +X1 +X3X4)    G2= ¬(X1X4 +X1X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1)   ¬G1+ ¬(X4 +X3)
9990   G1= ¬(X1X2 +X3X4)     F= ¬(X1X2)   ¬G1+ ¬(X4 +X3 +X1X2)
9991   G1= ¬(X3X4)     F=   ¬G1+ ¬(X4 +X3 +X1X2)
9992   G1= ¬(X1X2X4 +X3X4 +X1X2X3)     F= ¬(X1X2X4)   ¬G1+ ¬(X4 +X3 +X1X2)
9993   G1= ¬(X3X4 +X1X2X3)     F=   ¬G1+ ¬(X4 +X3 +X1X2)
9996   G1= ¬(X3X4 +X1X2X4 +X1X2X3)     F= ¬(X1X2X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
9997   G1= ¬(X3X4 +X1X2X4 +X1X2X3)     F=   ¬G1+ ¬(X4 +X3 +X1X2)
9998   G1= ¬(X1X2 +X3X4)     F= ¬(X1X2)   ¬G1+ ¬(X4 +X3)
999A   G1= ¬(X1X2X4 +X3X4 +X1X2X3)     F= ¬(X1X2X4)   ¬G1+ ¬(X4 +X3)
999B   G1= ¬(X3X4 +X1X2X3)     F=   ¬G1+ ¬(X4 +X3)
999E   G1= ¬(X3X4 +X1X2X4 +X1X2X3)     F= ¬(X1X2X3X4)   ¬G1+ ¬(X4 +X3)
999F   G1= ¬(X3X4 +X1X2X4 +X1X2X3)     F=   ¬G1+ ¬(X4 +X3)
99A0   G1= ¬(X1X4 +X1X2 +X3X4 +X1X3)     F= ¬(X1X4 +X1X2)   ¬G1+ ¬(X4 +X3 +X1X2)
99A1   G1= ¬(X2 +X1X4 +X3X4 +X1X3)    G2= ¬(X2X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1X4)   ¬G1+ ¬(X4 +X3 +X1X2)
99A2   G1= ¬(X1X4 +X3X4 +X1X3)     F= ¬(X1X4)   ¬G1+ ¬(X4 +X3 +X1X2)
99A3   G1= ¬(X2 +X1X4 +X3X4 +X1X3)    G2= ¬(X2X3X4 +X1X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1X4)   ¬G1
         + ¬(X4 +X3 +X1X2)
99A4   G1= ¬(X3X4 +X1X3 +X1X2X4)     F= ¬(X1X3X4 +X1X2X3)   ¬G1+ ¬(X4 +X3 +X1X2)
99A5   G1= ¬(X2 +X1X4 +X3X4 +X1X3)    G2= ¬(X2X3X4 +X1X2X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1X4)   ¬G1
         + ¬(X4 +X3 +X1X2)
99A6   G1= ¬(X3X4 +X1X3 +X1X2X4)     F= ¬(X1X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
99A7   G1= ¬(X2 +X1X4 +X3X4 +X1X3)    G2= ¬(X2X3X4 +X1X2X4 +X1X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1X4)   ¬G1
         + ¬(X4 +X3 +X1X2)
99A8   G1= ¬(X1X4 +X1X2 +X3X4 +X1X3)     F= ¬(X1X4 +X1X2)   ¬G1+ ¬(X4 +X3)
99A9   G1= ¬(X2 +X1X4 +X3X4 +X1X3)    G2= ¬(X2X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1X4)   ¬G1+ ¬(X4 +X3)
99AB   G1= ¬(X2 +X1X4 +X3X4 +X1X3)    G2= ¬(X2X3X4 +X1X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1X4)   ¬G1
         + ¬(X4 +X3)
99AC   G1= ¬(X3X4 +X1X3 +X1X2X4)     F= ¬(X1X3X4 +X1X2X3)   ¬G1+ ¬(X4 +X3)
99AD   G1= ¬(X2 +X1X4 +X3X4 +X1X3)    G2= ¬(X2X3X4 +X1X2X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1X4)   ¬G1
         + ¬(X4 +X3)
99AE   G1= ¬(X3X4 +X1X3 +X1X2X4)     F= ¬(X1X3X4)   ¬G1+ ¬(X4 +X3)
99AF   G1= ¬(X2 +X1X4 +X3X4 +X1X3)    G2= ¬(X2X3X4 +X1X2X4 +X1X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1X4)   ¬G1
         + ¬(X4 +X3)
99B0   G1= ¬(X1X2 +X3X4 +X1X3)     F= ¬(X1X2)   ¬G1+ ¬(X4 +X3 +X1X2)
99B1   G1= ¬(X4 +X2 +X1X3)    G2= ¬(X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X4 +X2)   ¬G1+ ¬(X4 +X3 +X1X2)
99B2   G1= ¬(X1X2X4 +X3X4 +X1X3)     F= ¬(X1X2X4)   ¬G1+ ¬(X4 +X3 +X1X2)
99B3   G1= ¬(X3X4 +X1X3)     F=   ¬G1+ ¬(X4 +X3 +X1X2)
99B4   G1= ¬(X3X4 +X1X3 +X1X2X4)     F= ¬(X1X2X3)   ¬G1+ ¬(X4 +X3 +X1X2)
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99B5   G1= ¬(X4 +X2 +X1X3)   G2= ¬(X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X4 +X2)   ¬G1+ ¬(X4 +X3 +X1X2)
99B6   G1= ¬(X3X4 +X1X3 +X1X2X4)      F= ¬(X1X2X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
99B7   G1= ¬(X3X4 +X1X3 +X1X2X4)      F=  ¬G1+ ¬(X4 +X3 +X1X2)
99B8   G1= ¬(X1X2 +X3X4 +X1X3)     F= ¬(X1X2)   ¬G1+ ¬(X4 +X3)
99B9   G1= ¬(X4 +X2 +X1X3)    G2= ¬(X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2)   ¬G1+ ¬(X4 +X3)
99BA   G1= ¬(X1X2X4 +X3X4 +X1X3)      F= ¬(X1X2X4)   ¬G1+ ¬(X4 +X3)
99BC   G1= ¬(X3X4 +X1X3 +X1X2X4)      F= ¬(X1X2X3)   ¬G1+ ¬(X4 +X3)
99BD   G1= ¬(X4 +X2 +X1X3)    G2= ¬(X3X4 +X1X2X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X2)   ¬G1+ ¬(X4 +X3)
99BE   G1= ¬(X3X4 +X1X3 +X1X2X4)      F= ¬(X1X2X3X4)   ¬G1+ ¬(X4 +X3)
99BF   G1= ¬(X3X4 +X1X3 +X1X2X4)      F=  ¬G1+ ¬(X4 +X3)
99E0   G1= ¬(X1X2 +X3X4 +X1X4 +X1X3)      F= ¬(X1X3X4 +X1X2)   ¬G1+ ¬(X4 +X3 +X1X2)
99E1   G1= ¬(X2 +X3X4 +X1X4 +X1X3)    G2= ¬(X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2 +X1X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
99E2   G1= ¬(X3X4 +X1X4 +X1X3)     F= ¬(X1X3X4 +X1X2X4)   ¬G1+ ¬(X4 +X3 +X1X2)
99E3   G1= ¬(X2 +X3X4 +X1X4 +X1X3)    G2= ¬(X2X3X4 +X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2 +X1X3X4)   ¬G1
          + ¬(X4 +X3 +X1X2)
99E6   G1= ¬(X3X4 +X1X4 +X1X3)     F= ¬(X1X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
99E7   G1= ¬(X2 +X3X4 +X1X4 +X1X3)    G2= ¬(X2X3X4 +X1X2X4 +X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2 +X1X3X4)   ¬G1
          + ¬(X4 +X3 +X1X2)
99E8   G1= ¬(X1X2 +X3X4 +X1X4 +X1X3)      F= ¬(X1X3X4 +X1X2)   ¬G1+ ¬(X4 +X3)
99E9   G1= ¬(X2 +X3X4 +X1X4 +X1X3)    G2= ¬(X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2 +X1X3X4)   ¬G1+ ¬(X4 +X3)
99EA   G1= ¬(X3X4 +X1X4 +X1X3)     F= ¬(X1X3X4 +X1X2X4)   ¬G1+ ¬(X4 +X3)
99EB   G1= ¬(X2 +X3X4 +X1X4 +X1X3)    G2= ¬(X2X3X4 +X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2 +X1X3X4)   ¬G1
          + ¬(X4 +X3)
99EF   G1= ¬(X2 +X3X4 +X1X4 +X1X3)    G2= ¬(X2X3X4 +X1X2X4 +X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2 +X1X3X4)   ¬G1
          + ¬(X4 +X3)
99F0   G1= ¬(X1X2 +X3X4 +X1X4 +X1X3)      F= ¬(X1X2)   ¬G1+ ¬(X4 +X3 +X1X2)
99F1   G1= ¬(X3X4 +X2 +X1X4 +X1X3)    G2= ¬(X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2)   ¬G1+ ¬(X4 +X3 +X1X2)
99F2   G1= ¬(X3X4 +X1X4 +X1X3)     F= ¬(X1X2X4)   ¬G1+ ¬(X4 +X3 +X1X2)
99F3   G1= ¬(X3 +X2 +X1X4)    G2= ¬(X3X4 +X1X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X2)   ¬G1+ ¬(X4 +X3 +X1X2)
99F6   G1= ¬(X3X4 +X1X4 +X1X3)     F= ¬(X1X2X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
99F7   G1= ¬(X3X4 +X1X4 +X1X3)     F=  ¬G1+ ¬(X4 +X3 +X1X2)
99F8   G1= ¬(X1X2 +X3X4 +X1X4 +X1X3)      F= ¬(X1X2)   ¬G1+ ¬(X4 +X3)
99F9   G1= ¬(X3X4 +X2 +X1X4 +X1X3)    G2= ¬(X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2)   ¬G1+ ¬(X4 +X3)
99FA   G1= ¬(X3X4 +X1X4 +X1X3)     F= ¬(X1X2X4)   ¬G1+ ¬(X4 +X3)
99FB   G1= ¬(X3 +X2 +X1X4)    G2= ¬(X3X4 +X1X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X2)   ¬G1+ ¬(X4 +X3)
99FE   G1= ¬(X3X4 +X1X4 +X1X3)     F= ¬(X1X2X3X4)   ¬G1+ ¬(X4 +X3)
9AA0   G1= ¬(X2X4 +X1X4 +X1X2 +X3X4 +X2X3 +X1X3)      F= ¬(X2X4 +X1X4 +X1X2)   ¬G1+ ¬(X4 +X3 +X1X2)
9AA1   G1= ¬(X2X4 +X1X4 +X1X2 +X3X4 +X2X3 +X1X3)    G2= ¬(X1X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X2)   ¬G1
          + ¬(X4 +X3 +X1X2)
9AA2   G1= ¬(X2X4 +X1X4 +X3X4 +X2X3 +X1X3)      F= ¬(X2X4 +X1X4)   ¬G1+ ¬(X4 +X3 +X1X2)
9AA3   G1= ¬(X2X4 +X1X4 +X1X2 +X3X4 +X2X3 +X1X3)    G2= ¬(X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X2)   ¬G1
          + ¬(X4 +X3 +X1X2)
9AA4   G1= ¬(X3X4 +X2X3 +X1X3 +X1X2X4)      F= ¬(X2X3X4 +X1X3X4 +X1X2X3)   ¬G1+ ¬(X4 +X3 +X1X2)
9AA5   G1= ¬(X2X4 +X1X4 +X1X2 +X3X4 +X2X3 +X1X3)    G2= ¬(X1X2X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X2)   ¬G1
          + ¬(X4 +X3 +X1X2)
9AA6   G1= ¬(X3X4 +X2X3 +X1X3 +X1X2X4)      F= ¬(X2X3X4 +X1X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
9AA7   G1= ¬(X2X4 +X1X4 +X1X2 +X3X4 +X2X3 +X1X3)    G2= ¬(X1X2X4 +X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X2)   ¬G1
          + ¬(X4 +X3 +X1X2)
9AA8   G1= ¬(X2X4 +X1X4 +X1X2 +X3X4 +X2X3 +X1X3)      F= ¬(X2X4 +X1X4 +X1X2)   ¬G1+ ¬(X4 +X3)
9AA9   G1= ¬(X2X4 +X1X4 +X1X2 +X3X4 +X2X3 +X1X3)    G2= ¬(X1X2X3X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X2)   ¬G1
          + ¬(X4 +X3)
9AAA   G1= ¬(X2X4 +X1X4 +X3X4 +X2X3 +X1X3)      F= ¬(X2X4 +X1X4)   ¬G1+ ¬(X4 +X3)
9AAB   G1= ¬(X2X4 +X1X4 +X1X2 +X3X4 +X2X3 +X1X3)    G2= ¬(X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X2)   ¬G1
          + ¬(X4 +X3)
9AAD   G1= ¬(X2X4 +X1X4 +X1X2 +X3X4 +X2X3 +X1X3)    G2= ¬(X1X2X4)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X2)   ¬G1
          + ¬(X4 +X3)
9AAF   G1= ¬(X2X4 +X1X4 +X1X2 +X3X4 +X2X3 +X1X3)    G2= ¬(X1X2X4 +X1X2X3)   ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X2)   ¬G1
          + ¬(X4 +X3)
9AAG   G1= ¬(X3X4 +X2X3 +X1X3 +X1X2X4)      F= ¬(X2X3X4 +X1X3X4 +X1X2X3)   ¬G1+ ¬(X4 +X3)
9AAI   G1= ¬(X3X4 +X2X3 +X1X3 +X1X2X4)      F= ¬(X2X3X4 +X1X3X4)   ¬G1+ ¬(X4 +X3)
9A30   G1= ¬(X2X4 +X1X2 +X3X4 +X2X3 +X1X3)      F= ¬(X2X4 +X1X2)   ¬G1+ ¬(X4 +X3 +X1X2)
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9AB1  G1= ¬(X2X4 +X1X4 +X1X2 +X3X4 +X2X3 +X1X3)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X2)  ¬G1
      + ¬(X4 +X3 +X1X2)
9AB2  G1= ¬(X2X4 +X3X4 +X2X3 +X1X3)    F= ¬(X2X4)  ¬G1+ ¬(X4 +X3 +X1X2)
9AB3  G1= ¬(X2X4 +X1 +X3X4 +X2X3)   G2= ¬(X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1)  ¬G1+ ¬(X4 +X3 +X1X2)
9AB4  G1= ¬(X3X4 +X2X3 +X1X3 +X1X2X4)    F= ¬(X2X3X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X1X2)
9AB5  G1= ¬(X2X4 +X1X4 +X1X2 +X3X4 +X2X3 +X1X3)   G2= ¬(X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X2)  ¬G1
      + ¬(X4 +X3 +X1X2)
9AB6  G1= ¬(X3X4 +X2X3 +X1X3 +X1X2X4)    F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X3 +X1X2)
9AB7  G1= ¬(X2X4 +X1 +X3X4 +X2X3)   G2= ¬(X1X3 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1)  ¬G1+ ¬(X4 +X3 +X1X2)
9AB8  G1= ¬(X2X4 +X1X2 +X3X4 +X2X3 +X1X3)    F= ¬(X2X4 +X1X2)  ¬G1+ ¬(X4 +X3)
9AB9  G1= ¬(X2X4 +X1X4 +X1X2 +X3X4 +X2X3 +X1X3)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X2)  ¬G1
      + ¬(X4 +X3)
9ABA  G1= ¬(X2X4 +X3X4 +X2X3 +X1X3)    F= ¬(X2X4)  ¬G1+ ¬(X4 +X3)
9ABB  G1= ¬(X2X4 +X1 +X3X4 +X2X3)   G2= ¬(X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1)  ¬G1+ ¬(X4 +X3)
9ABC  G1= ¬(X3X4 +X2X3 +X1X3 +X1X2X4)    F= ¬(X2X3X4 +X1X2X3)  ¬G1+ ¬(X4 +X3)
9ABD  G1= ¬(X2X4 +X1X4 +X1X2 +X3X4 +X2X3 +X1X3)   G2= ¬(X1X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X2)  ¬G1
      + ¬(X4 +X3)
9ABE  G1= ¬(X3X4 +X2X3 +X1X3 +X1X2X4)    F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X3)
9ABF  G1= ¬(X2X4 +X1 +X3X4 +X2X3)   G2= ¬(X1X3 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1)  ¬G1+ ¬(X4 +X3)
9AC0  G1= ¬(X2X4 +X1X3 +X1X2 +X3X4 +X2X3 +X1X4)    F= ¬(X2X4 +X1X3 +X1X2)  ¬G1+ ¬(X4 +X3 +X1X2)
9AC1  G1= ¬(X2X4 +X1X3 +X1X2 +X3X4 +X2X3 +X1X4)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3 +X1X2)  ¬G1
      + ¬(X4 +X3 +X1X2)
9AC2  G1= ¬(X2X4 +X3X4 +X2X3 +X1X4)    F= ¬(X2X4 +X1X3X4)  ¬G1+ ¬(X4 +X3 +X1X2)
9AC3  G1= ¬(X2X4 +X1X3 +X1X2 +X3X4 +X2X3 +X1X4)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3 +X1X2)  ¬G1
      + ¬(X4 +X3 +X1X2)
9AC6  G1= ¬(X3X4 +X2X3 +X1X4)    F= ¬(X2X3X4 +X1X3X4)  ¬G1+ ¬(X4 +X3 +X1X2)
9AC7  G1= ¬(X2X4 +X1X3 +X1X2 +X3X4 +X2X3 +X1X4)   G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3 +X1X2)  ¬G1
      + ¬(X4 +X3 +X1X2)
9AC8  G1= ¬(X2X4 +X1X3 +X1X2 +X3X4 +X2X3 +X1X4)    F= ¬(X2X4 +X1X3 +X1X2)  ¬G1+ ¬(X4 +X3)
9AC9  G1= ¬(X2X4 +X1X3 +X1X2 +X3X4 +X2X3 +X1X4)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3 +X1X2)  ¬G1
      + ¬(X4 +X3)
9ACA  G1= ¬(X2X4 +X3X4 +X2X3 +X1X4)    F= ¬(X2X4 +X1X3X4)  ¬G1+ ¬(X4 +X3)
9ACB  G1= ¬(X2X4 +X1X3 +X1X2 +X3X4 +X2X3 +X1X4)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3 +X1X2)  ¬G1
      + ¬(X4 +X3)
9ACE  G1= ¬(X3X4 +X2X3 +X1X4)    F= ¬(X2X3X4 +X1X3X4)  ¬G1+ ¬(X4 +X3)
9ACF  G1= ¬(X2X4 +X1X3 +X1X2 +X3X4 +X2X3 +X1X4)   G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3 +X1X2)  ¬G1
      + ¬(X4 +X3)
9AD0  G1= ¬(X2X4 +X1X2 +X3X4 +X2X3 +X1X4)    F= ¬(X2X4 +X1X2)  ¬G1+ ¬(X4 +X3 +X1X2)
9AD1  G1= ¬(X2X4 +X1X3 +X1X2 +X3X4 +X2X3 +X1X4)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3 +X1X2)  ¬G1
      + ¬(X4 +X3 +X1X2)
9AD2  G1= ¬(X2X4 +X3X4 +X2X3 +X1X4)    F= ¬(X2X4)  ¬G1+ ¬(X4 +X3 +X1X2)
9AD3  G1= ¬(X2X4 +X1X3 +X1X2 +X3X4 +X2X3 +X1X4)   G2= ¬(X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3 +X1X2)  ¬G1
      + ¬(X4 +X3 +X1X2)
9AD4  G1= ¬(X3X4 +X2X3 +X1X4)    F= ¬(X2X3X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X1X2)
9AD5  G1= ¬(X2X4 +X1 +X3X4 +X2X3)   G2= ¬(X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1)  ¬G1+ ¬(X4 +X3 +X1X2)
9AD6  G1= ¬(X3X4 +X2X3 +X1X4)    F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X3 +X1X2)
9AD7  G1= ¬(X2X4 +X1 +X3X4 +X2X3)   G2= ¬(X1X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1)  ¬G1+ ¬(X4 +X3 +X1X2)
9AD8  G1= ¬(X2X4 +X1X2 +X3X4 +X2X3 +X1X4)    F= ¬(X2X4 +X1X2)  ¬G1+ ¬(X4 +X3)
9AD9  G1= ¬(X2X4 +X1X3 +X1X2 +X3X4 +X2X3 +X1X4)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3 +X1X2)  ¬G1
      + ¬(X4 +X3)
9ADA  G1= ¬(X2X4 +X3X4 +X2X3 +X1X4)    F= ¬(X2X4)  ¬G1+ ¬(X4 +X3)
9ADB  G1= ¬(X2X4 +X1X3 +X1X2 +X3X4 +X2X3 +X1X4)   G2= ¬(X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3 +X1X2)  ¬G1
      + ¬(X4 +X3)
9ADC  G1= ¬(X3X4 +X2X3 +X1X4)    F= ¬(X2X3X4 +X1X2X3)  ¬G1+ ¬(X4 +X3)
9ADD  G1= ¬(X2X4 +X1 +X3X4 +X2X3)   G2= ¬(X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1)  ¬G1+ ¬(X4 +X3)
9ADE  G1= ¬(X3X4 +X2X3 +X1X4)    F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X3)
9ADF  G1= ¬(X2X4 +X1 +X3X4 +X2X3)   G2= ¬(X1X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1)  ¬G1+ ¬(X4 +X3)
9AE0  G1= ¬(X2X4 +X1X2 +X3X4 +X2X3 +X1X4 +X1X3)    F= ¬(X2X4 +X1X3X4 +X1X2)  ¬G1+ ¬(X4 +X3 +X1X2)
9AE1  G1= ¬(X2X4 +X1X2 +X3X4 +X2X3 +X1X4 +X1X3)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3X4 +X1X2)  ¬G1
      + ¬(X4 +X3 +X1X2)
9AE2  G1= ¬(X2X4 +X3X4 +X2X3 +X1X4 +X1X3)    F= ¬(X2X4 +X1X3X4)  ¬G1+ ¬(X4 +X3 +X1X2)
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9AE3   G1= ¬(X2X4 +X1X2 +X3X4 +X2X3 +X1X4 +X1X3)    G2= ¬(X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3X4 +X1X2)  ¬G1
         + ¬(X4 +X3 +X1X2)
9AE4   G1= ¬(X3X4 +X2X3 +X1X4 +X1X3)      F= ¬(X2X3X4 +X1X3X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X1X2)
9AE5   G1= ¬(X2X4 +X1X2 +X3X4 +X2X3 +X1X4 +X1X3)    G2= ¬(X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3X4 +X1X2)  ¬G1
         + ¬(X4 +X3 +X1X2)
9AE6   G1= ¬(X3X4 +X2X3 +X1X4 +X1X3)      F= ¬(X2X3X4 +X1X3X4)  ¬G1+ ¬(X4 +X3 +X1X2)
9AE7   G1= ¬(X2X4 +X1X2 +X3X4 +X2X3 +X1X4 +X1X3)    G2= ¬(X1X2X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3X4 +X1X2)  ¬G1
         + ¬(X4 +X3 +X1X2)
9AE8   G1= ¬(X2X4 +X1X2 +X3X4 +X2X3 +X1X4 +X1X3)      F= ¬(X2X4 +X1X3X4 +X1X2)  ¬G1+ ¬(X4 +X3)
9AE9   G1= ¬(X2X4 +X1X2 +X3X4 +X2X3 +X1X4 +X1X3)    G2= ¬(X1X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3X4 +X1X2)  ¬G1
         + ¬(X4 +X3)
9AEA   G1= ¬(X2X4 +X3X4 +X2X3 +X1X4 +X1X3)      F= ¬(X2X4 +X1X3X4)  ¬G1+ ¬(X4 +X3)
9AEB   G1= ¬(X2X4 +X1X2 +X3X4 +X2X3 +X1X4 +X1X3)    G2= ¬(X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3X4 +X1X2)  ¬G1
         + ¬(X4 +X3)
9AEC   G1= ¬(X3X4 +X2X3 +X1X4 +X1X3)      F= ¬(X2X3X4 +X1X3X4 +X1X2X3)  ¬G1+ ¬(X4 +X3)
9AED   G1= ¬(X2X4 +X1X2 +X3X4 +X2X3 +X1X4 +X1X3)    G2= ¬(X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3X4 +X1X2)  ¬G1
         + ¬(X4 +X3)
9AEE   G1= ¬(X3X4 +X2X3 +X1X4 +X1X3)      F= ¬(X2X3X4 +X1X3X4)  ¬G1+ ¬(X4 +X3)
9AEF   G1= ¬(X2X4 +X1X2 +X3X4 +X2X3 +X1X4 +X1X3)    G2= ¬(X1X2X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3X4 +X1X2)  ¬G1
         + ¬(X4 +X3)
9AF0   G1= ¬(X2X4 +X1X2 +X3X4 +X2X3 +X1X4 +X1X3)      F= ¬(X2X4 +X1X2)  ¬G1+ ¬(X4 +X3 +X1X2)
9AF1   G1= ¬(X2X4 +X1X2 +X3X4 +X2X3 +X1X4 +X1X3)    G2= ¬(X1X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3X4 +X1X2)  ¬G1
         + ¬(X4 +X3 +X1X2)
9AF2   G1= ¬(X2X4 +X3X4 +X2X3 +X1X4 +X1X3)      F= ¬(X2X4)  ¬G1+ ¬(X4 +X3 +X1X2)
9AF3   G1= ¬(X2X4 +X1X3 +X1X2 +X3X4 +X2X3 +X1X4)    G2= ¬(X1X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3 +X1X2)  ¬G1
         + ¬(X4 +X3 +X1X2)
9AF4   G1= ¬(X3X4 +X2X3 +X1X4 +X1X3)      F= ¬(X2X3X4 +X1X2X3)  ¬G1+ ¬(X4 +X3 +X1X2)
9AF5   G1= ¬(X2X4 +X1X4 +X1X2 +X3X4 +X2X3 +X1X3)    G2= ¬(X1X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X2)  ¬G1
         + ¬(X4 +X3 +X1X2)
9AF6   G1= ¬(X3X4 +X2X3 +X1X4 +X1X3)      F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X3 +X1X2)
9AF7   G1= ¬(X2X4 +X1 +X3X4 +X2X3)    G2= ¬(X1X4 +X1X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X1)  ¬G1+ ¬(X4 +X3 +X1X2)
9AF8   G1= ¬(X2X4 +X1X2 +X3X4 +X2X3 +X1X4 +X1X3)      F= ¬(X2X4 +X1X2)  ¬G1+ ¬(X4 +X3)
9AF9   G1= ¬(X2X4 +X1X2 +X3X4 +X2X3 +X1X4 +X1X3)    G2= ¬(X1X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3X4 +X1X2)  ¬G1
         + ¬(X4 +X3)
9AFA   G1= ¬(X2X4 +X3X4 +X2X3 +X1X4 +X1X3)      F= ¬(X2X4)  ¬G1+ ¬(X4 +X3)
9AFB   G1= ¬(X2X4 +X1X3 +X1X2 +X3X4 +X2X3 +X1X4)    G2= ¬(X1X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X1X3 +X1X2)  ¬G1
         + ¬(X4 +X3)
9AFC   G1= ¬(X3X4 +X2X3 +X1X4 +X1X3)      F= ¬(X2X3X4 +X1X2X3)  ¬G1+ ¬(X4 +X3)
9AFD   G1= ¬(X2X4 +X1X4 +X1X2 +X3X4 +X2X3 +X1X3)    G2= ¬(X1X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X1X4 +X1X2)  ¬G1
         + ¬(X4 +X3)
9AFE   G1= ¬(X3X4 +X2X3 +X1X4 +X1X3)      F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X3)
9AFF   G1= ¬(X2X4 +X1 +X3X4 +X2X3)    G2= ¬(X1X4 +X1X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X4 +X1)  ¬G1+ ¬(X4 +X3)
9BB0   G1= ¬(X1X2 +X3X4 +X2X3 +X1X3)      F= ¬(X1X2)  ¬G1+ ¬(X4 +X3 +X1X2)
9BB1   G1= ¬(X4 +X1X2 +X2X3 +X1X3)    G2= ¬(X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X2)  ¬G1+ ¬(X4 +X3 +X1X2)
9BB2   G1= ¬(X1X2X4 +X3X4 +X2X3 +X1X3)      F= ¬(X1X2X4)  ¬G1+ ¬(X4 +X3 +X1X2)
9333   G1= ¬(X3X4 +X2X3 +X1X3)      F=  ¬G1+ ¬(X4 +X3 +X1X2)
9BB4   G1= ¬(X3X4 +X2X3 +X1X3 +X1X2X4)      F= ¬(X1X2X3)  ¬G1+ ¬(X4 +X3 +X1X2)
9335   G1= ¬(X4 +X1X2 +X2X3 +X1X3)    G2= ¬(X3X4 +X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X2)  ¬G1+ ¬(X4 +X3 +X1X2)
9BB6   G1= ¬(X3X4 +X2X3 +X1X3 +X1X2X4)      F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X3 +X1X2)
9BB7   G1= ¬(X3X4 +X2X3 +X1X3 +X1X2X4)      F=  ¬G1+ ¬(X4 +X3 +X1X2)
9BB8   G1= ¬(X1X2 +X3X4 +X2X3 +X1X3)      F= ¬(X1X2)  ¬G1+ ¬(X4 +X3)
9BB9   G1= ¬(X4 +X1X2 +X2X3 +X1X3)    G2= ¬(X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X2)  ¬G1+ ¬(X4 +X3)
9BBA   G1= ¬(X1X2X4 +X3X4 +X2X3 +X1X3)      F= ¬(X1X2X4)  ¬G1+ ¬(X4 +X3)
9BBB   G1= ¬(X3X4 +X2X3 +X1X3)      F=  ¬G1+ ¬(X4 +X3)
9BBC   G1= ¬(X3X4 +X2X3 +X1X3 +X1X2X4)      F= ¬(X1X2X3)  ¬G1+ ¬(X4 +X3)
9BBD   G1= ¬(X4 +X1X2 +X2X3 +X1X3)    G2= ¬(X3X4 +X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X4 +X1X2)  ¬G1+ ¬(X4 +X3)
9BBE   G1= ¬(X3X4 +X2X3 +X1X3 +X1X2X4)      F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X3)
9BBF   G1= ¬(X3X4 +X2X3 +X1X3 +X1X2X4)      F=  ¬G1+ ¬(X4 +X3)
9BD0   G1= ¬(X1X2 +X3X4 +X2X3 +X1X4)      F= ¬(X1X2)  ¬G1+ ¬(X4 +X3 +X1X2)
9BD1   G1= ¬(X3X4 +X2X4 +X1X3 +X1X2 +X2X3 +X1X4)    G2= ¬(X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)  ¬G1
         + ¬(X4 +X3 +X1X2)
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9BD2   G1= ¬(X3X4 +X2X3 +X1X4)     F= ¬(X1X2X4)   ¬G1+ ¬(X4 +X3 +X1X2)
9BD3   G1= ¬(X3 +X2 +X1X4)    G2= ¬(X3X4 +X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3 +X2)   ¬G1+ ¬(X4 +X3 +X1X2)
9BD6   G1= ¬(X3X4 +X2X3 +X1X4)     F= ¬(X1X2X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
9BD7   G1= ¬(X3X4 +X2X3 +X1X4)     F=   ¬G1+ ¬(X4 +X3 +X1X2)
9BD8   G1= ¬(X1X2 +X3X4 +X2X3 +X1X4)     F= ¬(X1X2)   ¬G1+ ¬(X4 +X3)
9BD9   G1= ¬(X3X4 +X2X4 +X1X3 +X1X2 +X2X3 +X1X4)     G2= ¬(X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X3 +X1X2)   ¬G1
         + ¬(X4 +X3)
9BDA   G1= ¬(X3X4 +X2X3 +X1X4)     F= ¬(X1X2X4)   ¬G1+ ¬(X4 +X3)
9BDB   G1= ¬(X3 +X2 +X1X4)    G2= ¬(X3X4 +X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3 +X2)   ¬G1+ ¬(X4 +X3)
9BDE   G1= ¬(X3X4 +X2X3 +X1X4)     F= ¬(X1X2X3X4)   ¬G1+ ¬(X4 +X3)
9BDF   G1= ¬(X3X4 +X2X3 +X1X4)     F=   ¬G1+ ¬(X4 +X3)
9BE0   G1= ¬(X1X2 +X3X4 +X2X3 +X1X4 +X1X3)     F= ¬(X1X3X4 +X1X2)   ¬G1+ ¬(X4 +X3 +X1X2)
9BE1   G1= ¬(X2X4 +X1X2 +X3X4 +X2X3 +X1X4 +X1X3)     G2= ¬(X2X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2X4 +X1X3X4 +X1X2)   ¬G1
         + ¬(X4 +X3 +X1X2)
9BE2   G1= ¬(X3X4 +X2X3 +X1X4 +X1X3)     F= ¬(X1X3X4 +X1X2X4)   ¬G1+ ¬(X4 +X3 +X1X2)
9BE3   G1= ¬(X2 +X3X4 +X1X4 +X1X3)    G2= ¬(X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
9BE4   G1= ¬(X3X4 +X2X3 +X1X4 +X1X3)     F= ¬(X1X3X4 +X1X2X3)   ¬G1+ ¬(X4 +X3 +X1X2)
9BE5   G1= ¬(X2X4 +X1X2 +X3X4 +X2X3 +X1X4 +X1X3)     G2= ¬(X2X3X4 +X1X2X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2X4 +X1X3X4 +X1X2)   ¬G1
         + ¬(X4 +X3 +X1X2)
9BE6   G1= ¬(X3X4 +X2X3 +X1X4 +X1X3)     F= ¬(X1X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
9BE7   G1= ¬(X2 +X3X4 +X1X4 +X1X3)    G2= ¬(X2X3 +X1X2X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1X3X4)   ¬G1
         + ¬(X4 +X3 +X1X2)
9BE8   G1= ¬(X1X2 +X3X4 +X2X3 +X1X4 +X1X3)     F= ¬(X1X3X4 +X1X2)   ¬G1+ ¬(X4 +X3)
9BE9   G1= ¬(X2X4 +X1X2 +X3X4 +X2X3 +X1X4 +X1X3)     G2= ¬(X2X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2X4 +X1X3X4 +X1X2)   ¬G1
         + ¬(X4 +X3)
9BEA   G1= ¬(X3X4 +X2X3 +X1X4 +X1X3)     F= ¬(X1X3X4 +X1X2X4)   ¬G1+ ¬(X4 +X3)
9BEB   G1= ¬(X2 +X3X4 +X1X4 +X1X3)    G2= ¬(X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1X3X4)   ¬G1+ ¬(X4 +X3)
9BEC   G1= ¬(X3X4 +X2X3 +X1X4 +X1X3)     F= ¬(X1X3X4 +X1X2X3)   ¬G1+ ¬(X4 +X3)
9BED   G1= ¬(X2X4 +X1X2 +X3X4 +X2X3 +X1X4 +X1X3)     G2= ¬(X2X3X4 +X1X2X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2X4 +X1X3X4 +X1X2)   ¬G1
         + ¬(X4 +X3)
9BEE   G1= ¬(X3X4 +X2X3 +X1X4 +X1X3)     F= ¬(X1X3X4)   ¬G1+ ¬(X4 +X3)
9BEF   G1= ¬(X2 +X3X4 +X1X4 +X1X3)    G2= ¬(X2X3 +X1X2X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2 +X1X3X4)   ¬G1
         + ¬(X4 +X3)
9BF0   G1= ¬(X1X2 +X3X4 +X2X3 +X1X4 +X1X3)     F= ¬(X1X2)   ¬G1+ ¬(X4 +X3 +X1X2)
9BF1   G1= ¬(X3X4 +X2X4 +X1X2 +X2X3 +X1X4 +X1X3)     G2= ¬(X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2)   ¬G1
         + ¬(X4 +X3 +X1X2)
9BF2   G1= ¬(X3X4 +X2X3 +X1X4 +X1X3)     F= ¬(X1X2X4)   ¬G1+ ¬(X4 +X3 +X1X2)
9BF3   G1= ¬(X3 +X2 +X1X4)    G2= ¬(X3X4 +X2X3 +X1X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3 +X2)   ¬G1+ ¬(X4 +X3 +X1X2)
9BF4   G1= ¬(X3X4 +X2X3 +X1X4 +X1X3)     F= ¬(X1X2X3)   ¬G1+ ¬(X4 +X3 +X1X2)
9BF5   G1= ¬(X4 +X1X2 +X2X3 +X1X3)    G2= ¬(X3X4 +X1X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X4 +X1X2)   ¬G1+ ¬(X4 +X3 +X1X2)
9BF6   G1= ¬(X3X4 +X2X3 +X1X4 +X1X3)     F= ¬(X1X2X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
9BF7   G1= ¬(X3X4 +X2X3 +X1X4 +X1X3)     F=   ¬G1+ ¬(X4 +X3 +X1X2)
9BF8   G1= ¬(X1X2 +X3X4 +X2X3 +X1X4 +X1X3)     F= ¬(X1X2)   ¬G1+ ¬(X4 +X3)
9BF9   G1= ¬(X3X4 +X2X4 +X1X2 +X2X3 +X1X4 +X1X3)     G2= ¬(X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3X4 +X2X4 +X1X2)   ¬G1
         + ¬(X4 +X3)
9BFA   G1= ¬(X3X4 +X2X3 +X1X4 +X1X3)     F= ¬(X1X2X4)   ¬G1+ ¬(X4 +X3)
9BFB   G1= ¬(X3 +X2 +X1X4)    G2= ¬(X3X4 +X2X3 +X1X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X3 +X2)   ¬G1+ ¬(X4 +X3)
9BFC   G1= ¬(X3X4 +X2X3 +X1X4 +X1X3)     F= ¬(X1X2X3)   ¬G1+ ¬(X4 +X3)
9BFD   G1= ¬(X4 +X1X2 +X2X3 +X1X3)    G2= ¬(X3X4 +X1X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X4 +X1X2)   ¬G1+ ¬(X4 +X3)
9BFE   G1= ¬(X3X4 +X2X3 +X1X4 +X1X3)     F= ¬(X1X2X3X4)   ¬G1+ ¬(X4 +X3)
9BFF   G1= ¬(X3X4 +X2X3 +X1X4 +X1X3)     F=   ¬G1+ ¬(X4 +X3)
9EE0   G1= ¬(X1X2 +X3X4 +X2X4 +X2X3 +X1X4 +X1X3)     F= ¬(X2X3X4 +X1X3X4 +X1X2)   ¬G1+ ¬(X4 +X3 +X1X2)
9EE1   G1= ¬(X1X2 +X3X4 +X2X4 +X2X3 +X1X4 +X1X3)     G2= ¬(X1X2X3X4)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2X3X4 +X1X3X4 +X1X2)   ¬G1
         + ¬(X4 +X3 +X1X2)
9EE2   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)     F= ¬(X2X3X4 +X1X3X4 +X1X2X4)   ¬G1+ ¬(X4 +X3 +X1X2)
9EE3   G1= ¬(X1X2 +X3X4 +X2X4 +X2X3 +X1X4 +X1X3)     G2= ¬(X1X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2X3X4 +X1X3X4 +X1X2)   ¬G1
         + ¬(X4 +X3 +X1X2)
9EE6   G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)     F= ¬(X2X3X4 +X1X3X4)   ¬G1+ ¬(X4 +X3 +X1X2)
9EE7   G1= ¬(X1X2 +X3X4 +X2X4 +X2X3 +X1X4 +X1X3)     G2= ¬(X1X2X4 +X1X2X3)   ¬G1    F=   ¬G1 ¬G2+ ¬(X2X3X4 +X1X3X4 +X1X2)   ¬G1
         + ¬(X4 +X3 +X1X2)
9EE8   G1= ¬(X1X2 +X3X4 +X2X4 +X2X3 +X1X4 +X1X3)     F= ¬(X2X3X4 +X1X3X4 +X1X2)   ¬G1+ ¬(X4 +X3)
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9EE9  G1= ¬(X1X2 +X3X4 +X2X4 +X2X3 +X1X4 +X1X3)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3X4 +X1X2)  ¬G1
        + ¬(X4 +X3)
9EEA  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)     F= ¬(X2X3X4 +X1X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X3)
9EEB  G1= ¬(X1X2 +X3X4 +X2X4 +X2X3 +X1X4 +X1X3)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3X4 +X1X2)  ¬G1
        + ¬(X4 +X3)
9EEE  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)     F= ¬(X2X3X4 +X1X3X4)  ¬G1+ ¬(X4 +X3)
9EEF  G1= ¬(X1X2 +X3X4 +X2X4 +X2X3 +X1X4 +X1X3)   G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3X4 +X1X2)  ¬G1
        + ¬(X4 +X3)
9EF0  G1= ¬(X1X2 +X3X4 +X2X4 +X2X3 +X1X4 +X1X3)    F= ¬(X2X3X4 +X1X2)  ¬G1+ ¬(X4 +X3 +X1X2)
9EF1  G1= ¬(X1X2 +X3X4 +X2X4 +X2X3 +X1X4 +X1X3)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3X4 +X1X2)  ¬G1
        + ¬(X4 +X3 +X1X2)
9EF2  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)     F= ¬(X2X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X3 +X1X2)
9EF3  G1= ¬(X1X3 +X1X2 +X3X4 +X2X4 +X2X3 +X1X4)   G2= ¬(X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3 +X1X2)  ¬G1
        + ¬(X4 +X3 +X1X2)
9EF6  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)     F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X3 +X1X2)
9EF7  G1= ¬(X1 +X3X4 +X2X4 +X2X3)   G2= ¬(X1X4 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1)  ¬G1+ ¬(X4 +X3 +X1X2)
9EF8  G1= ¬(X1X2 +X3X4 +X2X4 +X2X3 +X1X4 +X1X3)    F= ¬(X2X3X4 +X1X2)  ¬G1+ ¬(X4 +X3)
9EF9  G1= ¬(X1X2 +X3X4 +X2X4 +X2X3 +X1X4 +X1X3)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3X4 +X1X2)  ¬G1
        + ¬(X4 +X3)
9EFA  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)     F= ¬(X2X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X3)
9EFB  G1= ¬(X1X3 +X1X2 +X3X4 +X2X4 +X2X3 +X1X4)   G2= ¬(X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1X3 +X1X2)  ¬G1
        + ¬(X4 +X3)
9EFE  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)     F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X3)
9EFF  G1= ¬(X1 +X3X4 +X2X4 +X2X3)   G2= ¬(X1X4 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X2X3X4 +X1)  ¬G1+ ¬(X4 +X3)
9FF0  G1= ¬(X1X2 +X3X4 +X2X4 +X2X3 +X1X4 +X1X3)    F= ¬(X1X2)  ¬G1+ ¬(X4 +X3 +X1X2)
9FF1  G1= ¬(X3X4 +X1X2 +X2X4 +X2X3 +X1X4 +X1X3)   G2= ¬(X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)  ¬G1
        + ¬(X4 +X3 +X1X2)
9FF2  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)     F= ¬(X1X2X4)  ¬G1+ ¬(X4 +X3 +X1X2)
9FF3  G1= ¬(X3 +X1X2 +X2X4 +X1X4)   G2= ¬(X3X4 +X2X3 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1
        + ¬(X4 +X3 +X1X2)
9FF6  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)     F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X3 +X1X2)
9FF7  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)     F=  ¬G1+ ¬(X4 +X3 +X1X2)
9FF8  G1= ¬(X1X2 +X3X4 +X2X4 +X2X3 +X1X4 +X1X3)    F= ¬(X1X2)  ¬G1+ ¬(X4 +X3)
9FF9  G1= ¬(X3X4 +X1X2 +X2X4 +X2X3 +X1X4 +X1X3)   G2= ¬(X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3X4 +X1X2)  ¬G1
        + ¬(X4 +X3)
9FFA  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)     F= ¬(X1X2X4)  ¬G1+ ¬(X4 +X3)
9FFB  G1= ¬(X3 +X1X2 +X2X4 +X1X4)   G2= ¬(X3X4 +X2X3 +X1X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1
        + ¬(X4 +X3)
9FFE  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)     F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X3)
9FFF  G1= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)     F=  ¬G1+ ¬(X4 +X3)
A880   F= ¬(X4 +X2X3 +X1X3 +X1X2)
A881  G1= ¬(X1X2X3X4)     F=  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A882  G1= ¬(X4 +X1X2X3)     F= ¬(X4)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A883  G1= ¬(X1X2X3)     F=  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A884  G1= ¬(X3 +X1X2X4)     F= ¬(X3)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A885  G1= ¬(X1X2X4)     F=  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A886  G1= ¬(X3X4 +X1X2X4 +X1X2X3)     F= ¬(X3X4)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A887  G1= ¬(X1X2X4 +X1X2X3)     F=  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A888   F= ¬(X4 +X2X3 +X1X3)
A889  G1= ¬(X1X2X3X4)     F=  ¬G1+ ¬(X4 +X2X3 +X1X3)
A88A  G1= ¬(X4 +X1X2X3)     F= ¬(X4)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A88B  G1= ¬(X1X2X3)     F=  ¬G1+ ¬(X4 +X2X3 +X1X3)
A88C  G1= ¬(X3 +X1X2X4)     F= ¬(X3)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A88D  G1= ¬(X1X2X4)     F=  ¬G1+ ¬(X4 +X2X3 +X1X3)
A88E  G1= ¬(X3X4 +X1X2X4 +X1X2X3)     F= ¬(X3X4)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A88F  G1= ¬(X1X2X4 +X1X2X3)     F=  ¬G1+ ¬(X4 +X2X3 +X1X3)
A894  G1= ¬(X2X3 +X1X3X4 +X1X2X4)     F= ¬(X2X3)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A895  G1= ¬(X1X3X4 +X1X2X4)     F=  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A896  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A897  G1= ¬(X1X3X4 +X1X2X4 +X1X2X3)     F=  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A898  G1= ¬(X2 +X1X3X4)     F= ¬(X2)  ¬G1+ ¬(X4 +X2X3 +X1X3)
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A899  G1= ¬(X1X3X4)     F=  ¬G1+ ¬(X4 +X2X3 +X1X3)
A89A  G1= ¬(X2X4 +X1X3X4 +X1X2X3)     F= ¬(X2X4)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A89B  G1= ¬(X1X3X4 +X1X2X3)     F=  ¬G1+ ¬(X4 +X2X3 +X1X3)
A89C  G1= ¬(X2X3 +X1X3X4 +X1X2X4)     F= ¬(X2X3)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A89D  G1= ¬(X1X3X4 +X1X2X4)     F=  ¬G1+ ¬(X4 +X2X3 +X1X3)
A89E  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A89F  G1= ¬(X1X3X4 +X1X2X4 +X1X2X3)     F=  ¬G1+ ¬(X4 +X2X3 +X1X3)
A8A9  G1= ¬(X1X2X3X4)     F=  ¬G1+ ¬(X4 +X2X3)
A8AA  G1= ¬(X4 +X1X2X3)     F= ¬(X4)  ¬G1+ ¬(X4 +X2X3)
A8AB  G1= ¬(X1X2X3)     F=  ¬G1+ ¬(X4 +X2X3)
A8AC  G1= ¬(X3 +X1X2X4)     F= ¬(X3)  ¬G1+ ¬(X4 +X2X3)
A8AD  G1= ¬(X1X2X4)     F=  ¬G1+ ¬(X4 +X2X3)
A8AE  G1= ¬(X3X4 +X1X2X4 +X1X2X3)     F= ¬(X3X4)  ¬G1+ ¬(X4 +X2X3)
A8AF  G1= ¬(X1X2X4 +X1X2X3)     F=  ¬G1+ ¬(X4 +X2X3)
A8BC  G1= ¬(X2X3 +X1X3X4 +X1X2X4)     F= ¬(X2X3)  ¬G1+ ¬(X4 +X2X3)
A8BD  G1= ¬(X1X3X4 +X1X2X4)     F=  ¬G1+ ¬(X4 +X2X3)
A8BE  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X2X3)
A8BF  G1= ¬(X1X3X4 +X1X2X4 +X1X2X3)     F=  ¬G1+ ¬(X4 +X2X3)
A8C0  G1= ¬(X3 +X2 +X1X4)     F= ¬(X3 +X2)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A8C1  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A8C2  G1= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)     F= ¬(X3X4 +X2X4)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A8C3  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A8C4  G1= ¬(X3 +X1X4)     F= ¬(X3)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A8C5  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A8C6  G1= ¬(X3X4 +X1X4 +X1X2X3)     F= ¬(X3X4)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A8C7  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A8C8  G1= ¬(X3 +X2 +X1X4)     F= ¬(X3 +X2)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A8C9  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A8CA  G1= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)     F= ¬(X3X4 +X2X4)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A8CB  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A8CC  G1= ¬(X3 +X1X4)     F= ¬(X3)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A8CD  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A8CE  G1= ¬(X3X4 +X1X4 +X1X2X3)     F= ¬(X3X4)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A8CF  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A8D4  G1= ¬(X2X3 +X1X4)     F= ¬(X2X3)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A8D5  G1= ¬(X1X4)     F=  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A8D6  G1= ¬(X2X3X4 +X1X4 +X1X2X3)     F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A8D7  G1= ¬(X1X4 +X1X2X3)     F=  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A8D8  G1= ¬(X2 +X1X4)     F= ¬(X2)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A8D9  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A8DA  G1= ¬(X2X4 +X1X4 +X1X2X3)     F= ¬(X2X4)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A8DB  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A8DC  G1= ¬(X2X3 +X1X4)     F= ¬(X2X3)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A8DD  G1= ¬(X1X4)     F=  ¬G1+ ¬(X4 +X2X3 +X1X3)
A8DE  G1= ¬(X2X3X4 +X1X4 +X1X2X3)     F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A8DF  G1= ¬(X1X4 +X1X2X3)     F=  ¬G1+ ¬(X4 +X2X3 +X1X3)
A8E8  G1= ¬(X3 +X2 +X1X4)     F= ¬(X3 +X2)  ¬G1+ ¬(X4 +X2X3)
A8E9  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X2X3)
A8EA  G1= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)     F= ¬(X3X4 +X2X4)  ¬G1+ ¬(X4 +X2X3)
A8EB  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X2X3)
A8EC  G1= ¬(X3 +X1X4)     F= ¬(X3)  ¬G1+ ¬(X4 +X2X3)
A8ED  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X2X3)
A8EE  G1= ¬(X3X4 +X1X4 +X1X2X3)     F= ¬(X3X4)  ¬G1+ ¬(X4 +X2X3)
A8EF  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X2X3)
A8FC  G1= ¬(X2X3 +X1X4)     F= ¬(X2X3)  ¬G1+ ¬(X4 +X2X3)
A8FD  G1= ¬(X1X4)     F=  ¬G1+ ¬(X4 +X2X3)
A8FE  G1= ¬(X2X3X4 +X1X4 +X1X2X3)     F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X2X3)
A8FF  G1= ¬(X1X4 +X1X2X3)     F=  ¬G1+ ¬(X4 +X2X3)
A994  G1= ¬(X1X2X3 +X2X3X4 +X1X3X4 +X1X2X4)     F= ¬(X1X2X3)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A995  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4)     F=  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A996  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
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A997  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F=  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A998  G1= ¬(X1X2 +X2X3X4 +X1X3X4)     F= ¬(X1X2)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A999  G1= ¬(X2X3X4 +X1X3X4)     F=  ¬G1+ ¬(X4 +X2X3 +X1X3)
A99A  G1= ¬(X1X2X4 +X2X3X4 +X1X3X4 +X1X2X3)     F= ¬(X1X2X4)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A99B  G1= ¬(X2X3X4 +X1X3X4 +X1X2X3)     F=  ¬G1+ ¬(X4 +X2X3 +X1X3)
A99C  G1= ¬(X1X2X3 +X2X3X4 +X1X3X4 +X1X2X4)     F= ¬(X1X2X3)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A99D  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4)     F=  ¬G1+ ¬(X4 +X2X3 +X1X3)
A99E  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A99F  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F=  ¬G1+ ¬(X4 +X2X3 +X1X3)
A9A8  G1= ¬(X1 +X2X3X4)     F= ¬(X1)  ¬G1+ ¬(X4 +X2X3)
A9AA  G1= ¬(X1X4 +X2X3X4 +X1X2X3)     F= ¬(X1X4)  ¬G1+ ¬(X4 +X2X3)
A9AB  G1= ¬(X2X3X4 +X1X2X3)     F=  ¬G1+ ¬(X4 +X2X3)
A9AC  G1= ¬(X1X3 +X2X3X4 +X1X2X4)     F= ¬(X1X3)  ¬G1+ ¬(X4 +X2X3)
A9AD  G1= ¬(X2X3X4 +X1X2X4)     F=  ¬G1+ ¬(X4 +X2X3)
A9AE  G1= ¬(X1X3X4 +X2X3X4 +X1X2X4 +X1X2X3)     F= ¬(X1X3X4)  ¬G1+ ¬(X4 +X2X3)
A9AF  G1= ¬(X2X3X4 +X1X2X4 +X1X2X3)     F=  ¬G1+ ¬(X4 +X2X3)
A9BC  G1= ¬(X1X2X3 +X2X3X4 +X1X3X4 +X1X2X4)     F= ¬(X1X2X3)  ¬G1+ ¬(X4 +X2X3)
A9BD  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4)     F=  ¬G1+ ¬(X4 +X2X3)
A9BE  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X2X3)
A9BF  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F=  ¬G1+ ¬(X4 +X2X3)
A9C0  G1= ¬(X1X3 +X1X2 +X2X3X4 +X1X4)     F= ¬(X1X3 +X1X2)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A9C1  G1= ¬(X3 +X2 +X1X4)    G2= ¬(X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A9C2  G1= ¬(X2X3X4 +X1X4 +X1X2X3)     F= ¬(X1X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A9C3  G1= ¬(X3 +X2 +X1X4)    G2= ¬(X2X3X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A9C4  G1= ¬(X1X3 +X2X3X4 +X1X4)     F= ¬(X1X3)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A9C5  G1= ¬(X3 +X2 +X1X4)    G2= ¬(X2X3X4 +X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A9C6  G1= ¬(X2X3X4 +X1X4 +X1X2X3)     F= ¬(X1X3X4)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A9C7  G1= ¬(X3 +X2 +X1X4)    G2= ¬(X2X3X4 +X1X2X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A9C8  G1= ¬(X1X3 +X1X2 +X2X3X4 +X1X4)     F= ¬(X1X3 +X1X2)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A9C9  G1= ¬(X3 +X2 +X1X4)    G2= ¬(X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A9CA  G1= ¬(X2X3X4 +X1X4 +X1X2X3)     F= ¬(X1X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A9CB  G1= ¬(X3 +X2 +X1X4)    G2= ¬(X2X3X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A9CC  G1= ¬(X1X3 +X2X3X4 +X1X4)     F= ¬(X1X3)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A9CD  G1= ¬(X3 +X2 +X1X4)    G2= ¬(X2X3X4 +X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A9CE  G1= ¬(X2X3X4 +X1X4 +X1X2X3)     F= ¬(X1X3X4)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A9CF  G1= ¬(X3 +X2 +X1X4)    G2= ¬(X2X3X4 +X1X2X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A9D4  G1= ¬(X1X2X3 +X2X3X4 +X1X4)     F= ¬(X1X2X3)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A9D5  G1= ¬(X2X3X4 +X1X4)     F=  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A9D6  G1= ¬(X2X3X4 +X1X4 +X1X2X3)     F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A9D7  G1= ¬(X2X3X4 +X1X4 +X1X2X3)     F=  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
A9D8  G1= ¬(X1X2 +X2X3X4 +X1X4)     F= ¬(X1X2)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A9D9  G1= ¬(X3 +X2 +X1X4)    G2= ¬(X2X3X4 +X1X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A9DA  G1= ¬(X2X3X4 +X1X4 +X1X2X3)     F= ¬(X1X2X4)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A9DB  G1= ¬(X3 +X2 +X1X4)    G2= ¬(X2X3X4 +X1X3X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A9DC  G1= ¬(X1X2X3 +X2X3X4 +X1X4)     F= ¬(X1X2X3)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A9DD  G1= ¬(X2X3X4 +X1X4)     F=  ¬G1+ ¬(X4 +X2X3 +X1X3)
A9DE  G1= ¬(X2X3X4 +X1X4 +X1X2X3)     F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X2X3 +X1X3)
A9DF  G1= ¬(X2X3X4 +X1X4 +X1X2X3)     F=  ¬G1+ ¬(X4 +X2X3 +X1X3)
A9E8  G1= ¬(X1X3 +X1X2 +X2X3X4 +X1X4)     F= ¬(X1X3 +X1X2)  ¬G1+ ¬(X4 +X2X3)
A9E9  G1= ¬(X3 +X2 +X1X4)    G2= ¬(X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X2X3)
A9EA  G1= ¬(X2X3X4 +X1X4 +X1X2X3)     F= ¬(X1X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X2X3)
A9EB  G1= ¬(X3 +X2 +X1X4)    G2= ¬(X2X3X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X2X3)
A9EC  G1= ¬(X1X3 +X2X3X4 +X1X4)     F= ¬(X1X3)  ¬G1+ ¬(X4 +X2X3)
A9ED  G1= ¬(X3 +X2 +X1X4)    G2= ¬(X2X3X4 +X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X2X3)
A9EE  G1= ¬(X2X3X4 +X1X4 +X1X2X3)     F= ¬(X1X3X4)  ¬G1+ ¬(X4 +X2X3)
A9EF  G1= ¬(X3 +X2 +X1X4)    G2= ¬(X2X3X4 +X1X2X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X2X3)
A9FC  G1= ¬(X1X2X3 +X2X3X4 +X1X4)     F= ¬(X1X2X3)  ¬G1+ ¬(X4 +X2X3)
A9FD  G1= ¬(X2X3X4 +X1X4)     F=  ¬G1+ ¬(X4 +X2X3)
A9FE  G1= ¬(X2X3X4 +X1X4 +X1X2X3)     F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X2X3)
A9FF  G1= ¬(X2X3X4 +X1X4 +X1X2X3)     F=  ¬G1+ ¬(X4 +X2X3)
AAA8   F= ¬(X4 +X1X2X3)
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AAA9  G1= ¬(X1X2X3X4)   F=  ¬G1+ ¬(X4 +X1X2X3)
AAAB  G1= ¬(X1X2X3X4)   F=  ¬G1+ ¬(X4)
AAAC  G1= ¬(X3 +X1X2X4)   F= ¬(X3)  ¬G1+ ¬(X4 +X1X2X3)
AAAD  G1= ¬(X1X2X4)   F=  ¬G1+ ¬(X4 +X1X2X3)
AAAE  G1= ¬(X3 +X1X2X4)   F= ¬(X3)  ¬G1+ ¬(X4)
AABC  G1= ¬(X2X3 +X1X3X4 +X1X2X4)   F= ¬(X2X3)  ¬G1+ ¬(X4 +X1X2X3)
AABD  G1= ¬(X1X3X4 +X1X2X4)   F=  ¬G1+ ¬(X4 +X1X2X3)
AABE  G1= ¬(X2X3 +X1X3X4 +X1X2X4)   F= ¬(X2X3)  ¬G1+ ¬(X4)
AABF  G1= ¬(X1X3X4 +X1X2X4)   F=  ¬G1+ ¬(X4)
AAC0  G1= ¬(X3 +X2 +X1X4)   F= ¬(X3 +X2)  ¬G1+ ¬(X4 +X1X3 +X1X2)
AAC1  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X1X3 +X1X2)
AAC2  G1= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)   F= ¬(X3X4 +X2X4)  ¬G1+ ¬(X4 +X1X3 +X1X2)
AAC3  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X1X3 +X1X2)
AAC4  G1= ¬(X3 +X1X4)   F= ¬(X3)  ¬G1+ ¬(X4 +X1X3 +X1X2)
AAC5  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X1X3 +X1X2)
AAC6  G1= ¬(X3X4 +X1X4 +X1X2X3)   F= ¬(X3X4)  ¬G1+ ¬(X4 +X1X3 +X1X2)
AAC7  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X1X3 +X1X2)
AAC8  G1= ¬(X3 +X2 +X1X4)   F= ¬(X3 +X2)  ¬G1+ ¬(X4 +X1X3)
AAC9  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X1X3)
AACA  G1= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)   F= ¬(X3X4 +X2X4)  ¬G1+ ¬(X4 +X1X3)
AACB  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X1X3)
AACD  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X1X3)
AACE  G1= ¬(X3X4 +X1X4 +X1X2X3)   F= ¬(X3X4)  ¬G1+ ¬(X4 +X1X3)
AACF  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X1X3)
AAD4  G1= ¬(X2X3 +X1X4)   F= ¬(X2X3)  ¬G1+ ¬(X4 +X1X3 +X1X2)
AAD5  G1= ¬(X1X4)   F=  ¬G1+ ¬(X4 +X1X3 +X1X2)
AAD6  G1= ¬(X2X3X4 +X1X4 +X1X2X3)   F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X1X3 +X1X2)
AAD7  G1= ¬(X1X4 +X1X2X3)   F=  ¬G1+ ¬(X4 +X1X3 +X1X2)
AAD8  G1= ¬(X2 +X1X4)   F= ¬(X2)  ¬G1+ ¬(X4 +X1X3)
AAD9  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X1X3)
AADA  G1= ¬(X2X4 +X1X4 +X1X2X3)   F= ¬(X2X4)  ¬G1+ ¬(X4 +X1X3)
AADB  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X1X3)
AADC  G1= ¬(X2X3 +X1X4)   F= ¬(X2X3)  ¬G1+ ¬(X4 +X1X3)
AADE  G1= ¬(X2X3X4 +X1X4 +X1X2X3)   F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X1X3)
AADF  G1= ¬(X1X4 +X1X2X3)   F=  ¬G1+ ¬(X4 +X1X3)
AAE8  G1= ¬(X3 +X2 +X1X4)   F= ¬(X3 +X2)  ¬G1+ ¬(X4 +X1X2X3)
AAE9  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X1X2X3)
AAEA  G1= ¬(X3 +X2 +X1X4)   F= ¬(X3 +X2)  ¬G1+ ¬(X4)
AAEB  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4)
AAEC  G1= ¬(X3 +X1X4)   F= ¬(X3)  ¬G1+ ¬(X4 +X1X2X3)
AAED  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X1X2X3)
AAEF  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4)
AAFC  G1= ¬(X2X3 +X1X4)   F= ¬(X2X3)  ¬G1+ ¬(X4 +X1X2X3)
AAFD  G1= ¬(X1X4)   F=  ¬G1+ ¬(X4 +X1X2X3)
AAFE  G1= ¬(X2X3 +X1X4)   F= ¬(X2X3)  ¬G1+ ¬(X4)
ABBC  G1= ¬(X1X2X3 +X2X3X4 +X1X3X4 +X1X2X4)   F= ¬(X1X2X3)  ¬G1+ ¬(X4 +X1X2X3)
ABBD  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4)   F=  ¬G1+ ¬(X4 +X1X2X3)
ABBE  G1= ¬(X1X2X3 +X2X3X4 +X1X3X4 +X1X2X4)   F= ¬(X1X2X3)  ¬G1+ ¬(X4)
ABBF  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4)   F=  ¬G1+ ¬(X4)
ABC0  G1= ¬(X1X3 +X1X2 +X2X3X4 +X1X4)   F= ¬(X1X3 +X1X2)  ¬G1+ ¬(X4 +X1X3 +X1X2)
ABC1  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X1X3 +X1X2)
ABC2  G1= ¬(X2X3X4 +X1X4 +X1X2X3)   F= ¬(X1X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X1X3 +X1X2)
ABC3  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X2X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X1X3 +X1X2)
ABC4  G1= ¬(X1X3 +X2X3X4 +X1X4)   F= ¬(X1X3)  ¬G1+ ¬(X4 +X1X3 +X1X2)
ABC5  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X2X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X1X3 +X1X2)
ABC6  G1= ¬(X2X3X4 +X1X4 +X1X2X3)   F= ¬(X1X3X4)  ¬G1+ ¬(X4 +X1X3 +X1X2)
ABC7  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X2X3X4 +X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X1X3 +X1X2)
ABC8  G1= ¬(X1X3 +X1X2 +X2X3X4 +X1X4)   F= ¬(X1X3 +X1X2)  ¬G1+ ¬(X4 +X1X3)
ABC9  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X1X3)
ABCA  G1= ¬(X2X3X4 +X1X4 +X1X2X3)   F= ¬(X1X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X1X3)
ABCB  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X2X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X1X3)
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ABCC  G1= ¬(X1X3 +X2X3X4 +X1X4)     F= ¬(X1X3)  ¬G1+ ¬(X4 +X1X3)
ABCD  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X2X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X1X3)
ABCE  G1= ¬(X2X3X4 +X1X4 +X1X2X3)    F= ¬(X1X3X4)  ¬G1+ ¬(X4 +X1X3)
ABCF  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X2X3X4 +X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X1X3)
ABD4  G1= ¬(X1X2X3 +X2X3X4 +X1X4)    F= ¬(X1X2X3)  ¬G1+ ¬(X4 +X1X3 +X1X2)
ABD5  G1= ¬(X2X3X4 +X1X4)     F=  ¬G1+ ¬(X4 +X1X3 +X1X2)
ABD6  G1= ¬(X2X3X4 +X1X4 +X1X2X3)    F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X1X3 +X1X2)
ABD7  G1= ¬(X2X3X4 +X1X4 +X1X2X3)    F=  ¬G1+ ¬(X4 +X1X3 +X1X2)
ABD8  G1= ¬(X1X2 +X2X3X4 +X1X4)     F= ¬(X1X2)  ¬G1+ ¬(X4 +X1X3)
ABD9  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X1X3)
ABDA  G1= ¬(X2X3X4 +X1X4 +X1X2X3)    F= ¬(X1X2X4)  ¬G1+ ¬(X4 +X1X3)
ABDB  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X1X3)
ABDC  G1= ¬(X1X2X3 +X2X3X4 +X1X4)    F= ¬(X1X2X3)  ¬G1+ ¬(X4 +X1X3)
ABDD  G1= ¬(X2X3X4 +X1X4)     F=  ¬G1+ ¬(X4 +X1X3)
ABDE  G1= ¬(X2X3X4 +X1X4 +X1X2X3)    F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X1X3)
ABDF  G1= ¬(X2X3X4 +X1X4 +X1X2X3)    F=  ¬G1+ ¬(X4 +X1X3)
ABE8  G1= ¬(X1X3 +X1X2 +X2X3X4 +X1X4)    F= ¬(X1X3 +X1X2)  ¬G1+ ¬(X4 +X1X2X3)
ABE9  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X1X2X3)
ABEA  G1= ¬(X1X3 +X1X2 +X2X3X4 +X1X4)    F= ¬(X1X3 +X1X2)  ¬G1+ ¬(X4)
ABEB  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4)
ABEC  G1= ¬(X1X3 +X2X3X4 +X1X4)    F= ¬(X1X3)  ¬G1+ ¬(X4 +X1X2X3)
ABED  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X2X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X1X2X3)
ABEE  G1= ¬(X1X3 +X2X3X4 +X1X4)    F= ¬(X1X3)  ¬G1+ ¬(X4)
ABEF  G1= ¬(X3 +X2 +X1X4)   G2= ¬(X2X3X4 +X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4)
ABFC  G1= ¬(X1X2X3 +X2X3X4 +X1X4)    F= ¬(X1X2X3)  ¬G1+ ¬(X4 +X1X2X3)
ABFD  G1= ¬(X2X3X4 +X1X4)     F=  ¬G1+ ¬(X4 +X1X2X3)
ABFE  G1= ¬(X1X2X3 +X2X3X4 +X1X4)    F= ¬(X1X2X3)  ¬G1+ ¬(X4)
ABFF  G1= ¬(X2X3X4 +X1X4)     F=  ¬G1+ ¬(X4)
ACC0  G1= ¬(X3 +X1X2 +X2X4 +X1X4)    F= ¬(X3 +X1X2)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
ACC1  G1= ¬(X3 +X1X2 +X2X4 +X1X4)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
ACC2  G1= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)    F= ¬(X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
ACC3  G1= ¬(X3 +X1X2 +X2X4 +X1X4)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
ACC4  G1= ¬(X3 +X2X4 +X1X4)    F= ¬(X3)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
ACC5  G1= ¬(X3 +X1X2 +X2X4 +X1X4)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
ACC6  G1= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)    F= ¬(X3X4)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
ACC7  G1= ¬(X3 +X1X2 +X2X4 +X1X4)   G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1
        + ¬(X4 +X2X3 +X1X3 +X1X2)
ACC8  G1= ¬(X3 +X1X2 +X2X4 +X1X4)    F= ¬(X3 +X1X2)  ¬G1+ ¬(X4 +X2X3 +X1X3)
ACC9  G1= ¬(X3 +X1X2 +X2X4 +X1X4)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1+ ¬(X4 +X2X3 +X1X3)
ACCA  G1= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)    F= ¬(X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X2X3 +X1X3)
ACCB  G1= ¬(X3 +X1X2 +X2X4 +X1X4)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1+ ¬(X4 +X2X3 +X1X3)
ACCC  G1= ¬(X3 +X2X4 +X1X4)    F= ¬(X3)  ¬G1+ ¬(X4 +X2X3 +X1X3)
ACCD  G1= ¬(X3 +X1X2 +X2X4 +X1X4)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1+ ¬(X4 +X2X3 +X1X3)
ACCE  G1= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)    F= ¬(X3X4)  ¬G1+ ¬(X4 +X2X3 +X1X3)
ACCF  G1= ¬(X3 +X1X2 +X2X4 +X1X4)   G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1
        + ¬(X4 +X2X3 +X1X3)
ACD0  G1= ¬(X2X3 +X1X2 +X2X4 +X1X4)    F= ¬(X2X3 +X1X2)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
ACD1  G1= ¬(X3 +X1X2 +X2X4 +X1X4)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
ACD2  G1= ¬(X2X4 +X1X4 +X1X2X3)    F= ¬(X2X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
ACD3  G1= ¬(X3 +X1X2 +X2X4 +X1X4)   G2= ¬(X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1
        + ¬(X4 +X2X3 +X1X3 +X1X2)
ACD4  G1= ¬(X2X3 +X2X4 +X1X4)    F= ¬(X2X3)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
ACD5  G1= ¬(X3 +X1 +X2X4)   G2= ¬(X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
ACD6  G1= ¬(X2X4 +X1X4 +X1X2X3)    F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
ACD7  G1= ¬(X3 +X1 +X2X4)   G2= ¬(X1X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
ACD8  G1= ¬(X2X3 +X1X2 +X2X4 +X1X4)    F= ¬(X2X3 +X1X2)  ¬G1+ ¬(X4 +X2X3 +X1X3)
ACD9  G1= ¬(X3 +X1X2 +X2X4 +X1X4)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1+ ¬(X4 +X2X3 +X1X3)
ACDA  G1= ¬(X2X4 +X1X4 +X1X2X3)    F= ¬(X2X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X2X3 +X1X3)
ACDB  G1= ¬(X3 +X1X2 +X2X4 +X1X4)   G2= ¬(X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1
        + ¬(X4 +X2X3 +X1X3)
ACDC  G1= ¬(X2X3 +X2X4 +X1X4)    F= ¬(X2X3)  ¬G1+ ¬(X4 +X2X3 +X1X3)
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ACDD  G1= ¬(X3 +X1 +X2X4)   G2= ¬(X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1)  ¬G1+ ¬(X4 +X2X3 +X1X3)
ACDE  G1= ¬(X2X4 +X1X4 +X1X2X3)    F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X2X3 +X1X3)
ACDF  G1= ¬(X3 +X1 +X2X4)   G2= ¬(X1X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1)  ¬G1+ ¬(X4 +X2X3 +X1X3)
ACE0  G1= ¬(X3 +X1X2 +X2X4 +X1X4)    F= ¬(X3 +X1X2)  ¬G1+ ¬(X4 +X2X3 +X1X2)
ACE1  G1= ¬(X3 +X1X2 +X2X4 +X1X4)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1+ ¬(X4 +X2X3 +X1X2)
ACE2  G1= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)    F= ¬(X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X2X3 +X1X2)
ACE3  G1= ¬(X3 +X1X2 +X2X4 +X1X4)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1+ ¬(X4 +X2X3 +X1X2)
ACE4  G1= ¬(X3 +X2X4 +X1X4)    F= ¬(X3)  ¬G1+ ¬(X4 +X2X3 +X1X2)
ACE5  G1= ¬(X3 +X1X2 +X2X4 +X1X4)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1+ ¬(X4 +X2X3 +X1X2)
ACE6  G1= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)    F= ¬(X3X4)  ¬G1+ ¬(X4 +X2X3 +X1X2)
ACE7  G1= ¬(X3 +X1X2 +X2X4 +X1X4)   G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1
    + ¬(X4 +X2X3 +X1X2)
ACE8  G1= ¬(X3 +X1X2 +X2X4 +X1X4)    F= ¬(X3 +X1X2)  ¬G1+ ¬(X4 +X2X3)
ACE9  G1= ¬(X3 +X1X2 +X2X4 +X1X4)   G2= ¬(X1X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1+ ¬(X4 +X2X3)
ACEA  G1= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)    F= ¬(X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X2X3)
ACEB  G1= ¬(X3 +X1X2 +X2X4 +X1X4)   G2= ¬(X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1+ ¬(X4 +X2X3)
ACEC  G1= ¬(X3 +X2X4 +X1X4)    F= ¬(X3)  ¬G1+ ¬(X4 +X2X3)
ACED  G1= ¬(X3 +X1X2 +X2X4 +X1X4)   G2= ¬(X1X2X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1+ ¬(X4 +X2X3)
ACEE  G1= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)    F= ¬(X3X4)  ¬G1+ ¬(X4 +X2X3)
ACEF  G1= ¬(X3 +X1X2 +X2X4 +X1X4)   G2= ¬(X1X2X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1
    + ¬(X4 +X2X3)
ACF0  G1= ¬(X2X3 +X1X2 +X2X4 +X1X4)    F= ¬(X2X3 +X1X2)  ¬G1+ ¬(X4 +X2X3 +X1X2)
ACF1  G1= ¬(X3 +X1X2 +X2X4 +X1X4)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1+ ¬(X4 +X2X3 +X1X2)
ACF2  G1= ¬(X2X4 +X1X4 +X1X2X3)    F= ¬(X2X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X2X3 +X1X2)
ACF3  G1= ¬(X3 +X1X2 +X2X4 +X1X4)   G2= ¬(X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1
    + ¬(X4 +X2X3 +X1X2)
ACF4  G1= ¬(X2X3 +X2X4 +X1X4)    F= ¬(X2X3)  ¬G1+ ¬(X4 +X2X3 +X1X2)
ACF5  G1= ¬(X3 +X1 +X2X4)   G2= ¬(X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1)  ¬G1+ ¬(X4 +X2X3 +X1X2)
ACF6  G1= ¬(X2X4 +X1X4 +X1X2X3)    F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X2X3 +X1X2)
ACF7  G1= ¬(X3 +X1 +X2X4)   G2= ¬(X1X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1)  ¬G1+ ¬(X4 +X2X3 +X1X2)
ACF8  G1= ¬(X2X3 +X1X2 +X2X4 +X1X4)    F= ¬(X2X3 +X1X2)  ¬G1+ ¬(X4 +X2X3)
ACF9  G1= ¬(X3 +X1X2 +X2X4 +X1X4)   G2= ¬(X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1+ ¬(X4 +X2X3)
ACFA  G1= ¬(X2X4 +X1X4 +X1X2X3)    F= ¬(X2X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X2X3)
ACFB  G1= ¬(X3 +X1X2 +X2X4 +X1X4)   G2= ¬(X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1
    + ¬(X4 +X2X3)
ACFC  G1= ¬(X2X3 +X2X4 +X1X4)    F= ¬(X2X3)  ¬G1+ ¬(X4 +X2X3)
ACFD  G1= ¬(X3 +X1 +X2X4)   G2= ¬(X1X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1)  ¬G1+ ¬(X4 +X2X3)
ACFE  G1= ¬(X2X4 +X1X4 +X1X2X3)    F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X2X3)
ACFF  G1= ¬(X3 +X1 +X2X4)   G2= ¬(X1X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1)  ¬G1+ ¬(X4 +X2X3)
ADD0  G1= ¬(X1X2 +X2X4 +X1X4)    F= ¬(X1X2)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
ADD1  G1= ¬(X3 +X1X2 +X2X4 +X1X4)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1
    + ¬(X4 +X2X3 +X1X3 +X1X2)
ADD2  G1= ¬(X2X4 +X1X4 +X1X2X3)    F= ¬(X1X2X4)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
ADD3  G1= ¬(X3 +X1X2 +X2X4 +X1X4)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1
    + ¬(X4 +X2X3 +X1X3 +X1X2)
ADD4  G1= ¬(X1X2X3 +X2X4 +X1X4)    F= ¬(X1X2X3)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
ADD5  G1= ¬(X2X4 +X1X4)    F=  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
ADD6  G1= ¬(X2X4 +X1X4 +X1X2X3)    F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
ADD7  G1= ¬(X2X4 +X1X4 +X1X2X3)    F=  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
ADD8  G1= ¬(X1X2 +X2X4 +X1X4)    F= ¬(X1X2)  ¬G1+ ¬(X4 +X2X3 +X1X3)
ADD9  G1= ¬(X3 +X1X2 +X2X4 +X1X4)   G2= ¬(X2X3X4 +X1X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1
    + ¬(X4 +X2X3 +X1X3)
ADDA  G1= ¬(X2X4 +X1X4 +X1X2X3)    F= ¬(X1X2X4)  ¬G1+ ¬(X4 +X2X3 +X1X3)
ADDB  G1= ¬(X3 +X1X2 +X2X4 +X1X4)   G2= ¬(X2X3X4 +X1X3X4 +X1X2X3)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1
    + ¬(X4 +X2X3 +X1X3)
ADDC  G1= ¬(X1X2X3 +X2X4 +X1X4)    F= ¬(X1X2X3)  ¬G1+ ¬(X4 +X2X3 +X1X3)
ADDD  G1= ¬(X2X4 +X1X4)    F=  ¬G1+ ¬(X4 +X2X3 +X1X3)
ADDE  G1= ¬(X2X4 +X1X4 +X1X2X3)    F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X2X3 +X1X3)
ADDF  G1= ¬(X2X4 +X1X4 +X1X2X3)    F=  ¬G1+ ¬(X4 +X2X3 +X1X3)
ADE0  G1= ¬(X1X3 +X1X2 +X2X4 +X1X4)    F= ¬(X1X3 +X1X2)  ¬G1+ ¬(X4 +X2X3 +X1X2)
ADE1  G1= ¬(X3 +X1X2 +X2X4 +X1X4)   G2= ¬(X2X3X4)  ¬G1   F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1+ ¬(X4 +X2X3 +X1X2)
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ADE2  G1= ¬(X2X4 +X1X4 +X1X2X3)     F= ¬(X1X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X2X3 +X1X2)
ADE3  G1= ¬(X3 +X1X2 +X2X4 +X1X4)    G2= ¬(X2X3X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1
         + ¬(X4 +X2X3 +X1X2)
ADE4  G1= ¬(X1X3 +X2X4 +X1X4)     F= ¬(X1X3)  ¬G1+ ¬(X4 +X2X3 +X1X2)
ADE5  G1= ¬(X3 +X2 +X1X4)    G2= ¬(X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X2X3 +X1X2)
ADE6  G1= ¬(X2X4 +X1X4 +X1X2X3)     F= ¬(X1X3X4)  ¬G1+ ¬(X4 +X2X3 +X1X2)
ADE7  G1= ¬(X3 +X2 +X1X4)    G2= ¬(X2X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X2X3 +X1X2)
ADE8  G1= ¬(X1X3 +X1X2 +X2X4 +X1X4)     F= ¬(X1X3 +X1X2)  ¬G1+ ¬(X4 +X2X3)
ADE9  G1= ¬(X3 +X1X2 +X2X4 +X1X4)    G2= ¬(X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1+ ¬(X4 +X2X3)
ADEA  G1= ¬(X2X4 +X1X4 +X1X2X3)     F= ¬(X1X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X2X3)
ADEB  G1= ¬(X3 +X1X2 +X2X4 +X1X4)    G2= ¬(X2X3X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1
         + ¬(X4 +X2X3)
ADEC  G1= ¬(X1X3 +X2X4 +X1X4)     F= ¬(X1X3)  ¬G1+ ¬(X4 +X2X3)
ADED  G1= ¬(X3 +X2 +X1X4)    G2= ¬(X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X2X3)
ADEE  G1= ¬(X2X4 +X1X4 +X1X2X3)     F= ¬(X1X3X4)  ¬G1+ ¬(X4 +X2X3)
ADEF  G1= ¬(X3 +X2 +X1X4)    G2= ¬(X2X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X2)  ¬G1+ ¬(X4 +X2X3)
ADF0  G1= ¬(X1X2 +X2X4 +X1X4)     F= ¬(X1X2)  ¬G1+ ¬(X4 +X2X3 +X1X2)
ADF1  G1= ¬(X3 +X1X2 +X2X4 +X1X4)    G2= ¬(X2X3X4 +X1X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1
         + ¬(X4 +X2X3 +X1X2)
ADF2  G1= ¬(X2X4 +X1X4 +X1X2X3)     F= ¬(X1X2X4)  ¬G1+ ¬(X4 +X2X3 +X1X2)
ADF3  G1= ¬(X3 +X1X2 +X2X4 +X1X4)    G2= ¬(X2X3X4 +X1X3X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1
         + ¬(X4 +X2X3 +X1X2)
ADF4  G1= ¬(X1X2X3 +X2X4 +X1X4)     F= ¬(X1X2X3)  ¬G1+ ¬(X4 +X2X3 +X1X2)
ADF5  G1= ¬(X2X4 +X1X4)     F=  ¬G1+ ¬(X4 +X2X3 +X1X2)
ADF6  G1= ¬(X2X4 +X1X4 +X1X2X3)     F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X2X3 +X1X2)
ADF7  G1= ¬(X2X4 +X1X4 +X1X2X3)     F=  ¬G1+ ¬(X4 +X2X3 +X1X2)
ADF8  G1= ¬(X1X2 +X2X4 +X1X4)     F= ¬(X1X2)  ¬G1+ ¬(X4 +X2X3)
ADF9  G1= ¬(X3 +X1X2 +X2X4 +X1X4)    G2= ¬(X2X3X4 +X1X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1
         + ¬(X4 +X2X3)
ADFA  G1= ¬(X2X4 +X1X4 +X1X2X3)     F= ¬(X1X2X4)  ¬G1+ ¬(X4 +X2X3)
ADFB  G1= ¬(X3 +X1X2 +X2X4 +X1X4)    G2= ¬(X2X3X4 +X1X3X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1
         + ¬(X4 +X2X3)
ADFC  G1= ¬(X1X2X3 +X2X4 +X1X4)     F= ¬(X1X2X3)  ¬G1+ ¬(X4 +X2X3)
ADFD  G1= ¬(X2X4 +X1X4)     F=  ¬G1+ ¬(X4 +X2X3)
ADFE  G1= ¬(X2X4 +X1X4 +X1X2X3)     F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X2X3)
ADFF  G1= ¬(X2X4 +X1X4 +X1X2X3)     F=  ¬G1+ ¬(X4 +X2X3)
AEE0  G1= ¬(X3 +X1X2 +X2X4 +X1X4)     F= ¬(X3 +X1X2)  ¬G1+ ¬(X4 +X1X2)
AEE1  G1= ¬(X3 +X1X2 +X2X4 +X1X4)    G2= ¬(X1X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1+ ¬(X4 +X1X2)
AEE2  G1= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)     F= ¬(X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X1X2)
AEE3  G1= ¬(X3 +X1X2 +X2X4 +X1X4)    G2= ¬(X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1+ ¬(X4 +X1X2)
AEE4  G1= ¬(X3 +X2X4 +X1X4)     F= ¬(X3)  ¬G1+ ¬(X4 +X1X2)
AEE5  G1= ¬(X3 +X1X2 +X2X4 +X1X4)    G2= ¬(X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1+ ¬(X4 +X1X2)
AEE6  G1= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)     F= ¬(X3X4)  ¬G1+ ¬(X4 +X1X2)
AEE7  G1= ¬(X3 +X1X2 +X2X4 +X1X4)    G2= ¬(X1X2X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1
         + ¬(X4 +X1X2)
AEE8  G1= ¬(X3 +X1X2 +X2X4 +X1X4)     F= ¬(X3 +X1X2)  ¬G1+ ¬(X4 +X1X2X3)
AEE9  G1= ¬(X3 +X1X2 +X2X4 +X1X4)    G2= ¬(X1X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1+ ¬(X4 +X1X2X3)
AEEA  G1= ¬(X3 +X1X2 +X2X4 +X1X4)     F= ¬(X3 +X1X2)  ¬G1+ ¬(X4)
AEEB  G1= ¬(X3 +X1X2 +X2X4 +X1X4)    G2= ¬(X1X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1+ ¬(X4)
AEEC  G1= ¬(X3 +X2X4 +X1X4)     F= ¬(X3)  ¬G1+ ¬(X4 +X1X2X3)
AEED  G1= ¬(X3 +X1X2 +X2X4 +X1X4)    G2= ¬(X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1+ ¬(X4 +X1X2X3)
AEEE  G1= ¬(X3 +X2X4 +X1X4)     F= ¬(X3)  ¬G1+ ¬(X4)
AEEF  G1= ¬(X3 +X1X2 +X2X4 +X1X4)    G2= ¬(X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1+ ¬(X4)
AEF0  G1= ¬(X2X3 +X1X2 +X2X4 +X1X4)     F= ¬(X2X3 +X1X2)  ¬G1+ ¬(X4 +X1X2)
AEF1  G1= ¬(X3 +X1X2 +X2X4 +X1X4)    G2= ¬(X1X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1+ ¬(X4 +X1X2)
AEF2  G1= ¬(X2X4 +X1X4 +X1X2X3)     F= ¬(X2X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X1X2)
AEF3  G1= ¬(X3 +X1X2 +X2X4 +X1X4)    G2= ¬(X1X3X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1
         + ¬(X4 +X1X2)
AEF4  G1= ¬(X2X3 +X2X4 +X1X4)     F= ¬(X2X3)  ¬G1+ ¬(X4 +X1X2)
AEF5  G1= ¬(X3 +X1 +X2X4)    G2= ¬(X1X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1)  ¬G1+ ¬(X4 +X1X2)
AEF6  G1= ¬(X2X4 +X1X4 +X1X2X3)     F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X1X2)
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AEF7  G1= ¬(X3 +X1 +X2X4)    G2= ¬(X1X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1)  ¬G1+ ¬(X4 +X1X2)
AEF8  G1= ¬(X2X3 +X1X2 +X2X4 +X1X4)    F= ¬(X2X3 +X1X2)  ¬G1+ ¬(X4 +X1X2X3)
AEF9  G1= ¬(X3 +X1X2 +X2X4 +X1X4)   G2= ¬(X1X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1+ ¬(X4 +X1X2X3)
AEFA  G1= ¬(X2X3 +X1X2 +X2X4 +X1X4)    F= ¬(X2X3 +X1X2)  ¬G1+ ¬(X4)
AEFB  G1= ¬(X3 +X1X2 +X2X4 +X1X4)   G2= ¬(X1X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1+ ¬(X4)
AEFC  G1= ¬(X2X3 +X2X4 +X1X4)    F= ¬(X2X3)  ¬G1+ ¬(X4 +X1X2X3)
AEFD  G1= ¬(X3 +X1 +X2X4)    G2= ¬(X1X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1)  ¬G1+ ¬(X4 +X1X2X3)
AEFE  G1= ¬(X2X3 +X2X4 +X1X4)    F= ¬(X2X3)  ¬G1+ ¬(X4)
AEFF  G1= ¬(X3 +X1 +X2X4)    G2= ¬(X1X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1)  ¬G1+ ¬(X4)
AFF1  G1= ¬(X3 +X1X2 +X2X4 +X1X4)    G2= ¬(X2X3X4 +X1X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1
      + ¬(X4 +X1X2)
AFF2  G1= ¬(X2X4 +X1X4 +X1X2X3)    F= ¬(X1X2X4)  ¬G1+ ¬(X4 +X1X2)
AFF3  G1= ¬(X3 +X1X2 +X2X4 +X1X4)    G2= ¬(X2X3X4 +X1X3X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1
      + ¬(X4 +X1X2)
AFF4  G1= ¬(X1X2X3 +X2X4 +X1X4)    F= ¬(X1X2X3)  ¬G1+ ¬(X4 +X1X2)
AFF6  G1= ¬(X2X4 +X1X4 +X1X2X3)    F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X1X2)
AFF7  G1= ¬(X2X4 +X1X4 +X1X2X3)    F=  ¬G1+ ¬(X4 +X1X2)
AFF8  G1= ¬(X1X2 +X2X4 +X1X4)    F= ¬(X1X2)  ¬G1+ ¬(X4 +X1X2X3)
AFF9  G1= ¬(X3 +X1X2 +X2X4 +X1X4)    G2= ¬(X2X3X4 +X1X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1
      + ¬(X4 +X1X2X3)
AFFB  G1= ¬(X3 +X1X2 +X2X4 +X1X4)    G2= ¬(X2X3X4 +X1X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1
      + ¬(X4)
AFFC  G1= ¬(X1X2X3 +X2X4 +X1X4)    F= ¬(X1X2X3)  ¬G1+ ¬(X4 +X1X2X3)
AFFD  G1= ¬(X2X4 +X1X4)    F=  ¬G1+ ¬(X4 +X1X2X3)
AFFE  G1= ¬(X1X2X3 +X2X4 +X1X4)    F= ¬(X1X2X3)  ¬G1+ ¬(X4)
BCC0  G1= ¬(X2X3 +X1X3 +X1X2 +X3X4 +X2X4 +X1X4)    F= ¬(X2X3 +X1X3 +X1X2)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
BCC1  G1= ¬(X2X3 +X1X3 +X1X2 +X3X4 +X2X4 +X1X4)    G2= ¬(X1X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3 +X1X2)  ¬G1
      + ¬(X4 +X2X3 +X1X3 +X1X2)
BCC2  G1= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)    F= ¬(X2X3X4 +X1X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
BCC3  G1= ¬(X2X3 +X1X3 +X1X2 +X3X4 +X2X4 +X1X4)    G2= ¬(X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3 +X1X2) · ¬G1
      + ¬(X4 +X2X3 +X1X3 +X1X2)
BCC4  G1= ¬(X2X3 +X1X3 +X3X4 +X2X4 +X1X4)    F= ¬(X2X3 +X1X3)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
BCC5  G1= ¬(X2X3 +X1X3 +X1X2 +X3X4 +X2X4 +X1X4)    G2= ¬(X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3 +X1X2)  ¬G1
      + ¬(X4 +X2X3 +X1X3 +X1X2)
BCC6  G1= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)    F= ¬(X2X3X4 +X1X3X4)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
BCC7  G1= ¬(X2X3 +X1X3 +X1X2 +X3X4 +X2X4 +X1X4)    G2= ¬(X1X2X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3 +X1X2)  ¬G1
      + ¬(X4 +X2X3 +X1X3 +X1X2)
BCC8  G1= ¬(X2X3 +X1X3 +X1X2 +X3X4 +X2X4 +X1X4)    F= ¬(X2X3 +X1X3 +X1X2)  ¬G1+ ¬(X4 +X2X3 +X1X3)
BCC9  G1= ¬(X2X3 +X1X3 +X1X2 +X3X4 +X2X4 +X1X4)    G2= ¬(X1X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3 +X1X2)  ¬G1
      + ¬(X4 +X2X3 +X1X3)
BCCA  G1= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)    F= ¬(X2X3X4 +X1X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X2X3 +X1X3)
BCCB  G1= ¬(X2X3 +X1X3 +X1X2 +X3X4 +X2X4 +X1X4)    G2= ¬(X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3 +X1X2)  ¬G1
      + ¬(X4 +X2X3 +X1X3)
BCCC  G1= ¬(X2X3 +X1X3 +X3X4 +X2X4 +X1X4)    F= ¬(X2X3 +X1X3)  ¬G1+ ¬(X4 +X2X3 +X1X3)
BCCD  G1= ¬(X2X3 +X1X3 +X1X2 +X3X4 +X2X4 +X1X4)    G2= ¬(X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3 +X1X2)  ¬G1
      + ¬(X4 +X2X3 +X1X3)
BCCE  G1= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)    F= ¬(X2X3X4 +X1X3X4)  ¬G1+ ¬(X4 +X2X3 +X1X3)
BCCF  G1= ¬(X2X3 +X1X3 +X1X2 +X3X4 +X2X4 +X1X4)    G2= ¬(X1X2X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3 +X1X2)  ¬G1
      + ¬(X4 +X2X3 +X1X3)
BCD4  G1= ¬(X2X3 +X3X4 +X2X4 +X1X4)    F= ¬(X2X3)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
BCD5  G1= ¬(X2X3 +X1 +X3X4 +X2X4)    G2= ¬(X1X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
BCD6  G1= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)    F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
BCD7  G1= ¬(X2X3 +X1 +X3X4 +X2X4)    G2= ¬(X1X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
BCD8  G1= ¬(X2X3 +X1X2 +X3X4 +X2X4 +X1X4)    F= ¬(X2X3 +X1X2)  ¬G1+ ¬(X4 +X2X3 +X1X3)
BCD9  G1= ¬(X2X3 +X1X3 +X1X2 +X3X4 +X2X4 +X1X4)    G2= ¬(X1X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3 +X1X2)  ¬G1
      + ¬(X4 +X2X3 +X1X3)
BCDA  G1= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)    F= ¬(X2X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X2X3 +X1X3)
BCDB  G1= ¬(X2X3 +X1X3 +X1X2 +X3X4 +X2X4 +X1X4)    G2= ¬(X1X3X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3 +X1X2)  ¬G1
      + ¬(X4 +X2X3 +X1X3)
BCDC  G1= ¬(X2X3 +X3X4 +X2X4 +X1X4)    F= ¬(X2X3)  ¬G1+ ¬(X4 +X2X3 +X1X3)
BCDD  G1= ¬(X2X3 +X1 +X3X4 +X2X4)    G2= ¬(X1X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1)  ¬G1+ ¬(X4 +X2X3 +X1X3)
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3CDE  G1= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)    F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X2X3 +X1X3)
3CDF  G1= ¬(X2X3 +X1 +X3X4 +X2X4)    G2= ¬(X1X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1)  ¬G1+ ¬(X4 +X2X3 +X1X3)
3CE8  G1= ¬(X2X3 +X1X3 +X1X2 +X3X4 +X2X4 +X1X4)    F= ¬(X2X3 +X1X3 +X1X2)  ¬G1+ ¬(X4 +X2X3)
3CE9  G1= ¬(X2X3 +X1X3 +X1X2 +X3X4 +X2X4 +X1X4)    G2= ¬(X1X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3 +X1X2)  ¬G1
        + ¬(X4 +X2X3)
3CEA  G1= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)    F= ¬(X2X3X4 +X1X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X2X3)
3CEB  G1= ¬(X2X3 +X1X3 +X1X2 +X3X4 +X2X4 +X1X4)    G2= ¬(X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3 +X1X2)  ¬G1
        + ¬(X4 +X2X3)
3CEC  G1= ¬(X2X3 +X1X3 +X3X4 +X2X4 +X1X4)    F= ¬(X2X3 +X1X3)  ¬G1+ ¬(X4 +X2X3)
3CED  G1= ¬(X2X3 +X1X3 +X1X2 +X3X4 +X2X4 +X1X4)    G2= ¬(X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3 +X1X2)  ¬G1
        + ¬(X4 +X2X3)
3CEE  G1= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)    F= ¬(X2X3X4 +X1X3X4)  ¬G1+ ¬(X4 +X2X3)
3CEF  G1= ¬(X2X3 +X1X3 +X1X2 +X3X4 +X2X4 +X1X4)    G2= ¬(X1X2X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3 +X1X2)  ¬G1
        + ¬(X4 +X2X3)
3CFC  G1= ¬(X2X3 +X3X4 +X2X4 +X1X4)    F= ¬(X2X3)  ¬G1+ ¬(X4 +X2X3)
3CFD  G1= ¬(X2X3 +X1 +X3X4 +X2X4)    G2= ¬(X1X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1)  ¬G1+ ¬(X4 +X2X3)
3CFE  G1= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)    F= ¬(X2X3X4)  ¬G1+ ¬(X4 +X2X3)
3CFF  G1= ¬(X2X3 +X1 +X3X4 +X2X4)    G2= ¬(X1X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1)  ¬G1+ ¬(X4 +X2X3)
3DD4  G1= ¬(X1X2X3 +X3X4 +X2X4 +X1X4)    F= ¬(X1X2X3)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
3DD5  G1= ¬(X3X4 +X2X4 +X1X4)    F=  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
3DD6  G1= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)    F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
3DD7  G1= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)    F=  ¬G1+ ¬(X4 +X2X3 +X1X3 +X1X2)
3DD8  G1= ¬(X1X2 +X3X4 +X2X4 +X1X4)    F= ¬(X1X2)  ¬G1+ ¬(X4 +X2X3 +X1X3)
3DD9  G1= ¬(X3 +X1X2 +X2X4 +X1X4)    G2= ¬(X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1+ ¬(X4 +X2X3 +X1X3)
3DDA  G1= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)    F= ¬(X1X2X4)  ¬G1+ ¬(X4 +X2X3 +X1X3)
3DDB  G1= ¬(X3 +X1X2 +X2X4 +X1X4)    G2= ¬(X3X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X3 +X1X2)  ¬G1+ ¬(X4 +X2X3 +X1X3)
3DDC  G1= ¬(X1X2X3 +X3X4 +X2X4 +X1X4)    F= ¬(X1X2X3)  ¬G1+ ¬(X4 +X2X3 +X1X3)
3DDD  G1= ¬(X3X4 +X2X4 +X1X4)    F=  ¬G1+ ¬(X4 +X2X3 +X1X3)
3DDE  G1= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)    F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X2X3 +X1X3)
3DDF  G1= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)    F=  ¬G1+ ¬(X4 +X2X3 +X1X3)
3DE8  G1= ¬(X1X3 +X1X2 +X3X4 +X2X4 +X1X4)    F= ¬(X1X3 +X1X2)  ¬G1+ ¬(X4 +X2X3)
3DE9  G1= ¬(X2X3 +X1X3 +X1X2 +X3X4 +X2X4 +X1X4)    G2= ¬(X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3 +X1X2)  ¬G1
        + ¬(X4 +X2X3)
3DEA  G1= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)    F= ¬(X1X3X4 +X1X2X4)  ¬G1+ ¬(X4 +X2X3)
3DEB  G1= ¬(X2X3 +X1X3 +X1X2 +X3X4 +X2X4 +X1X4)    G2= ¬(X2X3X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3 +X1X2)  ¬G1
        + ¬(X4 +X2X3)
3DEC  G1= ¬(X1X3 +X3X4 +X2X4 +X1X4)    F= ¬(X1X3)  ¬G1+ ¬(X4 +X2X3)
3DED  G1= ¬(X2 +X1X3 +X3X4 +X1X4)    G2= ¬(X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2 +X1X3)  ¬G1+ ¬(X4 +X2X3)
3DEE  G1= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)    F= ¬(X1X3X4)  ¬G1+ ¬(X4 +X2X3)
3DEF  G1= ¬(X2 +X1X3 +X3X4 +X1X4)    G2= ¬(X2X4 +X1X2X3)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2 +X1X3)  ¬G1+ ¬(X4 +X2X3)
3DFC  G1= ¬(X1X2X3 +X3X4 +X2X4 +X1X4)    F= ¬(X1X2X3)  ¬G1+ ¬(X4 +X2X3)
3DFD  G1= ¬(X3X4 +X2X4 +X1X4)    F=  ¬G1+ ¬(X4 +X2X3)
3DFE  G1= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)    F= ¬(X1X2X3X4)  ¬G1+ ¬(X4 +X2X3)
3DFF  G1= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)    F=  ¬G1+ ¬(X4 +X2X3)
3EE8  G1= ¬(X2X3 +X1X3 +X1X2 +X3X4 +X2X4 +X1X4)    F= ¬(X2X3 +X1X3 +X1X2)  ¬G1+ ¬(X4 +X1X2X3)
3EE9  G1= ¬(X2X3 +X1X3 +X1X2 +X3X4 +X2X4 +X1X4)    G2= ¬(X1X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3 +X1X2)  ¬G1
        + ¬(X4 +X1X2X3)
3EEA  G1= ¬(X2X3 +X1X3 +X1X2 +X3X4 +X2X4 +X1X4)    F= ¬(X2X3 +X1X3 +X1X2)  ¬G1+ ¬(X4)
3EEB  G1= ¬(X2X3 +X1X3 +X1X2 +X3X4 +X2X4 +X1X4)    G2= ¬(X1X2X3X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3 +X1X2)  ¬G1
        + ¬(X4)
3EEC  G1= ¬(X2X3 +X1X3 +X3X4 +X2X4 +X1X4)    F= ¬(X2X3 +X1X3)  ¬G1+ ¬(X4 +X1X2X3)
3EED  G1= ¬(X2X3 +X1X3 +X1X2 +X3X4 +X2X4 +X1X4)    G2= ¬(X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3 +X1X2)  ¬G1
        + ¬(X4 +X1X2X3)
3EEE  G1= ¬(X2X3 +X1X3 +X3X4 +X2X4 +X1X4)    F= ¬(X2X3 +X1X3)  ¬G1+ ¬(X4)
3EEF  G1= ¬(X2X3 +X1X3 +X1X2 +X3X4 +X2X4 +X1X4)    G2= ¬(X1X2X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1X3 +X1X2)  ¬G1
        + ¬(X4)
3EFC  G1= ¬(X2X3 +X3X4 +X2X4 +X1X4)    F= ¬(X2X3)  ¬G1+ ¬(X4 +X1X2X3)
3EFD  G1= ¬(X2X3 +X1 +X3X4 +X2X4)    G2= ¬(X1X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1)  ¬G1+ ¬(X4 +X1X2X3)
3EFE  G1= ¬(X2X3 +X3X4 +X2X4 +X1X4)    F= ¬(X2X3)  ¬G1+ ¬(X4)
3EFF  G1= ¬(X2X3 +X1 +X3X4 +X2X4)    G2= ¬(X1X4)  ¬G1    F=  ¬G1 ¬G2+ ¬(X2X3 +X1)  ¬G1+ ¬(X4)
3FFC  G1= ¬(X1X2X3 +X3X4 +X2X4 +X1X4)    F= ¬(X1X2X3)  ¬G1+ ¬(X4 +X1X2X3)
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3FFD   G1= ¬(X3X4 +X2X4 +X1X4)     F=  ¬G1+ ¬(X4 +X1X2X3)
3FFE   G1= ¬(X1X2X3 +X3X4 +X2X4 +X1X4)     F= ¬(X1X2X3)  ¬G1+ ¬(X4)
3FFF   G1= ¬(X3X4 +X2X4 +X1X4)     F=  ¬G1+ ¬(X4)
C000    F= ¬(X3 +X2 +X1)
C003   G1= ¬(X1X2X3)     F=  ¬G1+ ¬(X3 +X2 +X1)
C300   G1= ¬(X1 +X2X3)     F= ¬(X1)  ¬G1+ ¬(X3 +X2 +X1)
C303   G1= ¬(X2X3)     F=  ¬G1+ ¬(X3 +X2 +X1)
C330   G1= ¬(X1X2 +X2X3 +X1X3)     F= ¬(X1X2)  ¬G1+ ¬(X3 +X2 +X1)
C333   G1= ¬(X2X3 +X1X3)     F=  ¬G1+ ¬(X3 +X2 +X1)
C33C   G1= ¬(X2X3 +X1X3 +X1X2)     F= ¬(X1X2X3)  ¬G1+ ¬(X3 +X2 +X1)
C33F   G1= ¬(X2X3 +X1X3 +X1X2)     F=  ¬G1+ ¬(X3 +X2 +X1)
C3C0   G1= ¬(X1 +X2X3)     F= ¬(X1)  ¬G1+ ¬(X3 +X2)
C3C3   G1= ¬(X2X3)     F=  ¬G1+ ¬(X3 +X2)
CF30   G1= ¬(X1X2 +X2X3 +X1X3)     F= ¬(X1X2)  ¬G1+ ¬(X3 +X1)
CF33   G1= ¬(X2X3 +X1X3)     F=  ¬G1+ ¬(X3 +X1)
CFF0   G1= ¬(X1X2 +X2X3 +X1X3)     F= ¬(X1X2)  ¬G1+ ¬(X3 +X1X2)
CFF3   G1= ¬(X2X3 +X1X3)     F=  ¬G1+ ¬(X3 +X1X2)
E880    F= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)
E881   G1= ¬(X1X2X3X4)     F=  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)
E882   G1= ¬(X4 +X1X2X3)     F= ¬(X4)  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)
E883   G1= ¬(X1X2X3)     F=  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)
E885   G1= ¬(X3X4 +X1X2X4 +X1X2X3)     F= ¬(X3X4)  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)
E887   G1= ¬(X1X2X4 +X1X2X3)     F=  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)
E888    F= ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)
E889   G1= ¬(X1X2X3X4)     F=  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)
E88A   G1= ¬(X4 +X1X2X3)     F= ¬(X4)  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)
E88B   G1= ¬(X1X2X3)     F=  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)
E88E   G1= ¬(X3X4 +X1X2X4 +X1X2X3)     F= ¬(X3X4)  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)
E88F   G1= ¬(X1X2X4 +X1X2X3)     F=  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)
E896   G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F= ¬(X2X3X4)  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)
E897   G1= ¬(X1X3X4 +X1X2X4 +X1X2X3)     F=  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)
E898   G1= ¬(X2 +X1X3X4)     F= ¬(X2)  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)
E899   G1= ¬(X1X3X4)     F=  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)
E89A   G1= ¬(X2X4 +X1X3X4 +X1X2X3)     F= ¬(X2X4)  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)
E89B   G1= ¬(X1X3X4 +X1X2X3)     F=  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)
E89E   G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F= ¬(X2X3X4)  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)
E89F   G1= ¬(X1X3X4 +X1X2X4 +X1X2X3)     F=  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)
E8A8    F= ¬(X3X4 +X2X4 +X2X3 +X1X4)
E8A9   G1= ¬(X1X2X3X4)     F=  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4)
E8AA   G1= ¬(X4 +X1X2X3)     F= ¬(X4)  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4)
E8AB   G1= ¬(X1X2X3)     F=  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4)
E8AC   G1= ¬(X3 +X1X2X4)     F= ¬(X3)  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4)
E8AD   G1= ¬(X1X2X4)     F=  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4)
E8AE   G1= ¬(X3X4 +X1X2X4 +X1X2X3)     F= ¬(X3X4)  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4)
E8AF   G1= ¬(X1X2X4 +X1X2X3)     F=  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4)
E8BC   G1= ¬(X2X3 +X1X3X4 +X1X2X4)     F= ¬(X2X3)  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4)
E8BD   G1= ¬(X1X3X4 +X1X2X4)     F=  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4)
E8BE   G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F= ¬(X2X3X4)  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4)
E8BF   G1= ¬(X1X3X4 +X1X2X4 +X1X2X3)     F=  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4)
E8E9   G1= ¬(X1X2X3X4)     F=  ¬G1+ ¬(X3X4 +X2X4 +X2X3)
E8EA   G1= ¬(X4 +X1X2X3)     F= ¬(X4)  ¬G1+ ¬(X3X4 +X2X4 +X2X3)
E8EB   G1= ¬(X1X2X3)     F=  ¬G1+ ¬(X3X4 +X2X4 +X2X3)
E8EE   G1= ¬(X3X4 +X1X2X4 +X1X2X3)     F= ¬(X3X4)  ¬G1+ ¬(X3X4 +X2X4 +X2X3)
E8EF   G1= ¬(X1X2X4 +X1X2X3)     F=  ¬G1+ ¬(X3X4 +X2X4 +X2X3)
E8FE   G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F= ¬(X2X3X4)  ¬G1+ ¬(X3X4 +X2X4 +X2X3)
E8FF   G1= ¬(X1X3X4 +X1X2X4 +X1X2X3)     F=  ¬G1+ ¬(X3X4 +X2X4 +X2X3)
E996   G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F= ¬(X1X2X3X4)  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)
E997   G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F=  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3 +X1X2)
E998   G1= ¬(X1X2 +X2X3X4 +X1X3X4)     F= ¬(X1X2)  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)
E999   G1= ¬(X2X3X4 +X1X3X4)     F=  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)
E99A   G1= ¬(X1X2X4 +X2X3X4 +X1X3X4 +X1X2X3)     F= ¬(X1X2X4)  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)
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E99B  G1= ¬(X2X3X4 +X1X3X4 +X1X2X3)     F=  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)
E99E  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F= ¬(X1X2X3X4)  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)
E99F  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F=  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4 +X1X3)
E9A8  G1= ¬(X1 +X2X3X4)     F= ¬(X1)  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4)
E9A9  G1= ¬(X2X3X4)     F=  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4)
E9AA  G1= ¬(X1X4 +X2X3X4 +X1X2X3)     F= ¬(X1X4)  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4)
E9AB  G1= ¬(X2X3X4 +X1X2X3)     F=  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4)
E9AC  G1= ¬(X1X3 +X2X3X4 +X1X2X4)     F= ¬(X1X3)  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4)
E9AD  G1= ¬(X2X3X4 +X1X2X4)     F=  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4)
E9AE  G1= ¬(X1X3X4 +X2X3X4 +X1X2X4 +X1X2X3)     F= ¬(X1X3X4)  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4)
E9AF  G1= ¬(X2X3X4 +X1X2X4 +X1X2X3)     F=  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4)
E9BC  G1= ¬(X1X2X3 +X2X3X4 +X1X3X4 +X1X2X4)     F= ¬(X1X2X3)  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4)
E9BD  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4)     F=  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4)
E9BE  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F= ¬(X1X2X3X4)  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4)
E9BF  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F=  ¬G1+ ¬(X3X4 +X2X4 +X2X3 +X1X4)
E9E8  G1= ¬(X1 +X2X3X4)     F= ¬(X1)  ¬G1+ ¬(X3X4 +X2X4 +X2X3)
E9EA  G1= ¬(X1X4 +X2X3X4 +X1X2X3)     F= ¬(X1X4)  ¬G1+ ¬(X3X4 +X2X4 +X2X3)
E9EB  G1= ¬(X2X3X4 +X1X2X3)     F=  ¬G1+ ¬(X3X4 +X2X4 +X2X3)
E9EE  G1= ¬(X1X3X4 +X2X3X4 +X1X2X4 +X1X2X3)     F= ¬(X1X3X4)  ¬G1+ ¬(X3X4 +X2X4 +X2X3)
E9EF  G1= ¬(X2X3X4 +X1X2X4 +X1X2X3)     F=  ¬G1+ ¬(X3X4 +X2X4 +X2X3)
E9FE  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F= ¬(X1X2X3X4)  ¬G1+ ¬(X3X4 +X2X4 +X2X3)
E9FF  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F=  ¬G1+ ¬(X3X4 +X2X4 +X2X3)
EAA8   F= ¬(X3X4 +X2X4 +X1X4 +X1X2X3)
EAA9  G1= ¬(X1X2X3X4)     F=  ¬G1+ ¬(X3X4 +X2X4 +X1X4 +X1X2X3)
EAAA   F= ¬(X3X4 +X2X4 +X1X4)
EAAB  G1= ¬(X1X2X3X4)     F=  ¬G1+ ¬(X3X4 +X2X4 +X1X4)
EAAC  G1= ¬(X3 +X1X2X4)     F= ¬(X3)  ¬G1+ ¬(X3X4 +X2X4 +X1X4 +X1X2X3)
EAAD  G1= ¬(X1X2X4)     F=  ¬G1+ ¬(X3X4 +X2X4 +X1X4 +X1X2X3)
EAAE  G1= ¬(X3 +X1X2X4)     F= ¬(X3)  ¬G1+ ¬(X3X4 +X2X4 +X1X4)
EAAF  G1= ¬(X1X2X4)     F=  ¬G1+ ¬(X3X4 +X2X4 +X1X4)
EABC  G1= ¬(X2X3 +X1X3X4 +X1X2X4)     F= ¬(X2X3)  ¬G1+ ¬(X3X4 +X2X4 +X1X4 +X1X2X3)
EABD  G1= ¬(X1X3X4 +X1X2X4)     F=  ¬G1+ ¬(X3X4 +X2X4 +X1X4 +X1X2X3)
EABE  G1= ¬(X2X3 +X1X3X4 +X1X2X4)     F= ¬(X2X3)  ¬G1+ ¬(X3X4 +X2X4 +X1X4)
EABF  G1= ¬(X1X3X4 +X1X2X4)     F=  ¬G1+ ¬(X3X4 +X2X4 +X1X4)
EAC0   F= ¬(X3X4 +X2X4 +X1X3 +X1X2)
EAC1  G1= ¬(X1X2X3X4)     F=  ¬G1+ ¬(X3X4 +X2X4 +X1X3 +X1X2)
EAC2  G1= ¬(X4 +X1X2X3)     F= ¬(X4)  ¬G1+ ¬(X3X4 +X2X4 +X1X3 +X1X2)
EAC3  G1= ¬(X1X2X3)     F=  ¬G1+ ¬(X3X4 +X2X4 +X1X3 +X1X2)
EAC5  G1= ¬(X3X4 +X1X2X4 +X1X2X3)     F= ¬(X3X4)  ¬G1+ ¬(X3X4 +X2X4 +X1X3 +X1X2)
EAC7  G1= ¬(X1X2X4 +X1X2X3)     F=  ¬G1+ ¬(X3X4 +X2X4 +X1X3 +X1X2)
EAC8   F= ¬(X3X4 +X2X4 +X1X3)
EAC9  G1= ¬(X1X2X3X4)     F=  ¬G1+ ¬(X3X4 +X2X4 +X1X3)
EACA  G1= ¬(X4 +X1X2X3)     F= ¬(X4)  ¬G1+ ¬(X3X4 +X2X4 +X1X3)
EACB  G1= ¬(X1X2X3)     F=  ¬G1+ ¬(X3X4 +X2X4 +X1X3)
EACE  G1= ¬(X3X4 +X1X2X4 +X1X2X3)     F= ¬(X3X4)  ¬G1+ ¬(X3X4 +X2X4 +X1X3)
EACF  G1= ¬(X1X2X4 +X1X2X3)     F=  ¬G1+ ¬(X3X4 +X2X4 +X1X3)
EAD4  G1= ¬(X2X3 +X1X3X4 +X1X2X4)     F= ¬(X2X3)  ¬G1+ ¬(X3X4 +X2X4 +X1X3 +X1X2)
EAD5  G1= ¬(X1X3X4 +X1X2X4)     F=  ¬G1+ ¬(X3X4 +X2X4 +X1X3 +X1X2)
EAD6  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F= ¬(X2X3X4)  ¬G1+ ¬(X3X4 +X2X4 +X1X3 +X1X2)
EAD7  G1= ¬(X1X3X4 +X1X2X4 +X1X2X3)     F=  ¬G1+ ¬(X3X4 +X2X4 +X1X3 +X1X2)
EAD8  G1= ¬(X2 +X1X3X4)     F= ¬(X2)  ¬G1+ ¬(X3X4 +X2X4 +X1X3)
EAD9  G1= ¬(X1X3X4)     F=  ¬G1+ ¬(X3X4 +X2X4 +X1X3)
EADA  G1= ¬(X2X4 +X1X3X4 +X1X2X3)     F= ¬(X2X4)  ¬G1+ ¬(X3X4 +X2X4 +X1X3)
EADB  G1= ¬(X1X3X4 +X1X2X3)     F=  ¬G1+ ¬(X3X4 +X2X4 +X1X3)
EADC  G1= ¬(X2X3 +X1X3X4 +X1X2X4)     F= ¬(X2X3)  ¬G1+ ¬(X3X4 +X2X4 +X1X3)
EADD  G1= ¬(X1X3X4 +X1X2X4)     F=  ¬G1+ ¬(X3X4 +X2X4 +X1X3)
EADE  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F= ¬(X2X3X4)  ¬G1+ ¬(X3X4 +X2X4 +X1X3)
EADF  G1= ¬(X1X3X4 +X1X2X4 +X1X2X3)     F=  ¬G1+ ¬(X3X4 +X2X4 +X1X3)
EAE8   F= ¬(X3X4 +X2X4 +X1X2X3)
EAE9  G1= ¬(X1X2X3X4)     F=  ¬G1+ ¬(X3X4 +X2X4 +X1X2X3)
EAEB  G1= ¬(X1X2X3X4)     F=  ¬G1+ ¬(X3X4 +X2X4)
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EAEC  G1= ¬(X3 +X1X2X4)     F= ¬(X3)   ¬G1+ ¬(X3X4 +X2X4 +X1X2X3)
EAED  G1= ¬(X1X2X4)     F=   ¬G1+ ¬(X3X4 +X2X4 +X1X2X3)
EAEE  G1= ¬(X3 +X1X2X4)     F= ¬(X3)   ¬G1+ ¬(X3X4 +X2X4)
EAEF  G1= ¬(X1X2X4)     F=   ¬G1+ ¬(X3X4 +X2X4)
EAFC  G1= ¬(X2X3 +X1X3X4 +X1X2X4)     F= ¬(X2X3)   ¬G1+ ¬(X3X4 +X2X4 +X1X2X3)
EAFD  G1= ¬(X1X3X4 +X1X2X4)     F=   ¬G1+ ¬(X3X4 +X2X4 +X1X2X3)
EAFE  G1= ¬(X2X3 +X1X3X4 +X1X2X4)     F= ¬(X2X3)   ¬G1+ ¬(X3X4 +X2X4)
EAFF  G1= ¬(X1X3X4 +X1X2X4)     F=   ¬G1+ ¬(X3X4 +X2X4)
EBBC  G1= ¬(X1X2X3 +X2X3X4 +X1X3X4 +X1X2X4)     F= ¬(X1X2X3)   ¬G1+ ¬(X3X4 +X2X4 +X1X4 +X1X2X3)
EBBD  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4)     F=   ¬G1+ ¬(X3X4 +X2X4 +X1X4 +X1X2X3)
EBBE  G1= ¬(X1X2X3 +X2X3X4 +X1X3X4 +X1X2X4)     F= ¬(X1X2X3)   ¬G1+ ¬(X3X4 +X2X4 +X1X4)
EBBF  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4)     F=   ¬G1+ ¬(X3X4 +X2X4 +X1X4)
EBD5  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F= ¬(X1X2X3X4)   ¬G1+ ¬(X3X4 +X2X4 +X1X3 +X1X2)
EBD7  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F=   ¬G1+ ¬(X3X4 +X2X4 +X1X3 +X1X2)
EBD8  G1= ¬(X1X2 +X2X3X4 +X1X3X4)     F= ¬(X1X2)   ¬G1+ ¬(X3X4 +X2X4 +X1X3)
EBD9  G1= ¬(X2X3X4 +X1X3X4)     F=   ¬G1+ ¬(X3X4 +X2X4 +X1X3)
EBDA  G1= ¬(X1X2X4 +X2X3X4 +X1X3X4 +X1X2X3)     F= ¬(X1X2X4)   ¬G1+ ¬(X3X4 +X2X4 +X1X3)
EBDB  G1= ¬(X2X3X4 +X1X3X4 +X1X2X3)     F=   ¬G1+ ¬(X3X4 +X2X4 +X1X3)
EBDE  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F= ¬(X1X2X3X4)   ¬G1+ ¬(X3X4 +X2X4 +X1X3)
EBDF  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F=   ¬G1+ ¬(X3X4 +X2X4 +X1X3)
EBE8  G1= ¬(X1 +X2X3X4)     F= ¬(X1)   ¬G1+ ¬(X3X4 +X2X4 +X1X2X3)
EBE9  G1= ¬(X2X3X4)     F=   ¬G1+ ¬(X3X4 +X2X4 +X1X2X3)
EBEA  G1= ¬(X1 +X2X3X4)     F= ¬(X1)   ¬G1+ ¬(X3X4 +X2X4)
EBEC  G1= ¬(X1X3 +X2X3X4 +X1X2X4)     F= ¬(X1X3)   ¬G1+ ¬(X3X4 +X2X4 +X1X2X3)
EBED  G1= ¬(X2X3X4 +X1X2X4)     F=   ¬G1+ ¬(X3X4 +X2X4 +X1X2X3)
EBEE  G1= ¬(X1X3 +X2X3X4 +X1X2X4)     F= ¬(X1X3)   ¬G1+ ¬(X3X4 +X2X4)
EBEF  G1= ¬(X2X3X4 +X1X2X4)     F=   ¬G1+ ¬(X3X4 +X2X4)
EBFC  G1= ¬(X1X2X3 +X2X3X4 +X1X3X4 +X1X2X4)     F= ¬(X1X2X3)   ¬G1+ ¬(X3X4 +X2X4 +X1X2X3)
EBFD  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4)     F=   ¬G1+ ¬(X3X4 +X2X4 +X1X2X3)
EBFE  G1= ¬(X1X2X3 +X2X3X4 +X1X3X4 +X1X2X4)     F= ¬(X1X2X3)   ¬G1+ ¬(X3X4 +X2X4)
EBFF  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4)     F=   ¬G1+ ¬(X3X4 +X2X4)
EEE0   F= ¬(X3X4 +X1X2)
EEE1  G1= ¬(X1X2X3X4)     F=   ¬G1+ ¬(X3X4 +X1X2)
EEE2  G1= ¬(X4 +X1X2X3)     F= ¬(X4)   ¬G1+ ¬(X3X4 +X1X2)
EEE3  G1= ¬(X1X2X3)     F=   ¬G1+ ¬(X3X4 +X1X2)
EEE6  G1= ¬(X3X4 +X1X2X4 +X1X2X3)     F= ¬(X3X4)   ¬G1+ ¬(X3X4 +X1X2)
EEE7  G1= ¬(X1X2X4 +X1X2X3)     F=   ¬G1+ ¬(X3X4 +X1X2)
EEE8   F= ¬(X3X4 +X1X2X4 +X1X2X3)
EEE9  G1= ¬(X1X2X3X4)     F=   ¬G1+ ¬(X3X4 +X1X2X4 +X1X2X3)
EEEA   F= ¬(X3X4 +X1X2X4)
EEEB  G1= ¬(X1X2X3X4)     F=   ¬G1+ ¬(X3X4 +X1X2X4)
EEEF  G1= ¬(X1X2X3X4)     F=   ¬G1+ ¬(X3X4)
EEF2  G1= ¬(X2X4 +X1X3X4 +X1X2X3)     F= ¬(X2X4)   ¬G1+ ¬(X3X4 +X1X2)
EEF3  G1= ¬(X1X3X4 +X1X2X3)     F=   ¬G1+ ¬(X3X4 +X1X2)
EEF6  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F= ¬(X2X3X4)   ¬G1+ ¬(X3X4 +X1X2)
EEF7  G1= ¬(X1X3X4 +X1X2X4 +X1X2X3)     F=   ¬G1+ ¬(X3X4 +X1X2)
EEF8  G1= ¬(X2 +X1X3X4)     F= ¬(X2)   ¬G1+ ¬(X3X4 +X1X2X4 +X1X2X3)
EEF9  G1= ¬(X1X3X4)     F=   ¬G1+ ¬(X3X4 +X1X2X4 +X1X2X3)
EEFA  G1= ¬(X2 +X1X3X4)     F= ¬(X2)   ¬G1+ ¬(X3X4 +X1X2X4)
EEFB  G1= ¬(X1X3X4)     F=   ¬G1+ ¬(X3X4 +X1X2X4)
EEFE  G1= ¬(X2 +X1X3X4)     F= ¬(X2)   ¬G1+ ¬(X3X4)
EFF6  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F= ¬(X1X2X3X4)   ¬G1+ ¬(X3X4 +X1X2)
EFF7  G1= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)     F=   ¬G1+ ¬(X3X4 +X1X2)
EFF8  G1= ¬(X1X2 +X2X3X4 +X1X3X4)     F= ¬(X1X2)   ¬G1+ ¬(X3X4 +X1X2X4 +X1X2X3)
EFF9  G1= ¬(X2X3X4 +X1X3X4)     F=   ¬G1+ ¬(X3X4 +X1X2X4 +X1X2X3)
EFFA  G1= ¬(X1X2 +X2X3X4 +X1X3X4)     F= ¬(X1X2)   ¬G1+ ¬(X3X4 +X1X2X4)
EFFB  G1= ¬(X2X3X4 +X1X3X4)     F=   ¬G1+ ¬(X3X4 +X1X2X4)
EFFF  G1= ¬(X1X2 +X2X3X4 +X1X3X4)     F= ¬(X1X2)   ¬G1+ ¬(X3X4)
EFFF  G1= ¬(X2X3X4 +X1X3X4)     F=   ¬G1+ ¬(X3X4)
F000   F= ¬(X2 +X1)
F003  G1= ¬(X1X2X3)     F=   ¬G1+ ¬(X2 +X1)
```
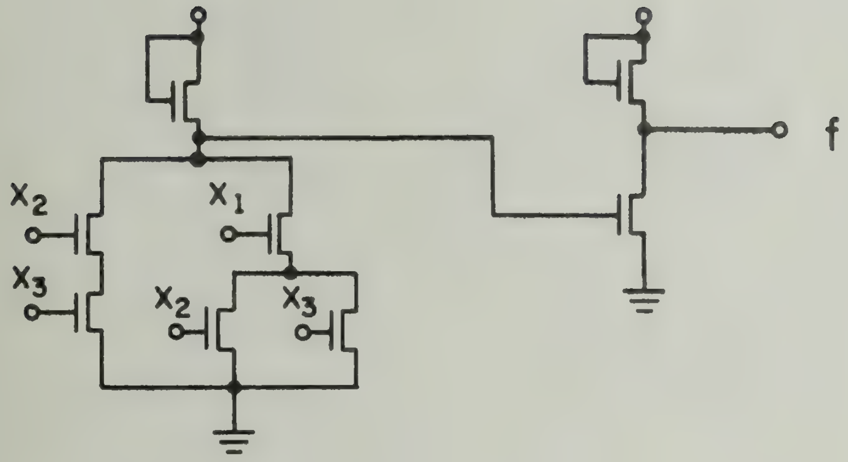

```
F300   G1= ¬(X1 +X2X3)      F= ¬(X1)   ¬G1+ ¬(X2 +X1)
F303   G1= ¬(X2X3)      F=   ¬G1+ ¬(X2 +X1)
F330   G1= ¬(X1X2 +X2X3 +X1X3)      F= ¬(X1X2)   ¬G1+ ¬(X2 +X1)
F333   G1= ¬(X2X3 +X1X3)      F=   ¬G1+ ¬(X2 +X1)
F33C   G1= ¬(X2X3 +X1X3 +X1X2)      F= ¬(X1X2X3)   ¬G1+ ¬(X2 +X1)
F33F   G1= ¬(X2X3 +X1X3 +X1X2)      F=   ¬G1+ ¬(X2 +X1)
F3C0   G1= ¬(X1 +X2X3)      F= ¬(X1)   ¬G1+ ¬(X2 +X1X3)
F3C3   G1= ¬(X2X3)      F=   ¬G1+ ¬(X2 +X1X3)
FC00    F= ¬(X2X3 +X1)
FC03   G1= ¬(X1X2X3)      F=   ¬G1+ ¬(X2X3 +X1)
FCC0    F= ¬(X2X3 +X1X3 +X1X2)
FCC3   G1= ¬(X1X2X3)      F=   ¬G1+ ¬(X2X3 +X1X3 +X1X2)
FEE8    F= ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)
FEE9   G1= ¬(X1X2X3X4)      F=   ¬G1+ ¬(X2X3X4 +X1X3X4 +X1X2X4 +X1X2X3)
FEEA    F= ¬(X2X3X4 +X1X3X4 +X1X2X4)
FEEB   G1= ¬(X1X2X3X4)      F=   ¬G1+ ¬(X2X3X4 +X1X3X4 +X1X2X4)
FEEE    F= ¬(X2X3X4 +X1X3X4)
FEEF   G1= ¬(X1X2X3X4)      F=   ¬G1+ ¬(X2X3X4 +X1X3X4)
FEFF   G1= ¬(X1X2X3X4)      F=   ¬G1+ ¬(X2X3X4)
FF00    F= ¬(X1)
FF03   G1= ¬(X1X2X3)      F=   ¬G1+ ¬(X1)
FF30   G1= ¬(X2 +X1X3)      F= ¬(X2)   ¬G1+ ¬(X1)
FF33   G1= ¬(X1X3)      F=   ¬G1+ ¬(X1)
FF3C   G1= ¬(X2X3 +X1X3 +X1X2)      F= ¬(X2X3)   ¬G1+ ¬(X1)
FF3F   G1= ¬(X1X3 +X1X2)      F=   ¬G1+ ¬(X1)
FFC0    F= ¬(X1X3 +X1X2)
FFC3   G1= ¬(X1X2X3)      F=   ¬G1+ ¬(X1X3 +X1X2)
FFF0    F= ¬(X1X2)
FFF3   G1= ¬(X1X2X3)      F=   ¬G1+ ¬(X1X2)
FFFC    F= ¬(X1X2X3)
FFFE    F= ¬(X1X2X3X4)
```

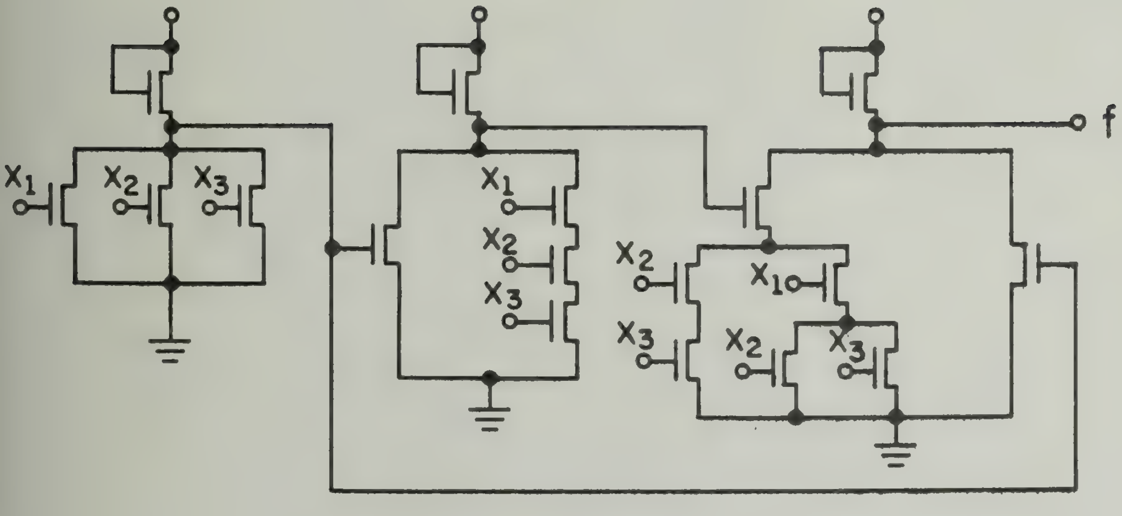
APPENDIX C

EXAMPLES OF DESIGNED NETWORKS

FIGURE C MOS NETWORKS FOR THREE AND FOUR VARIABLE FUNCTIONS



027 (MAJORITY FUNCTION)



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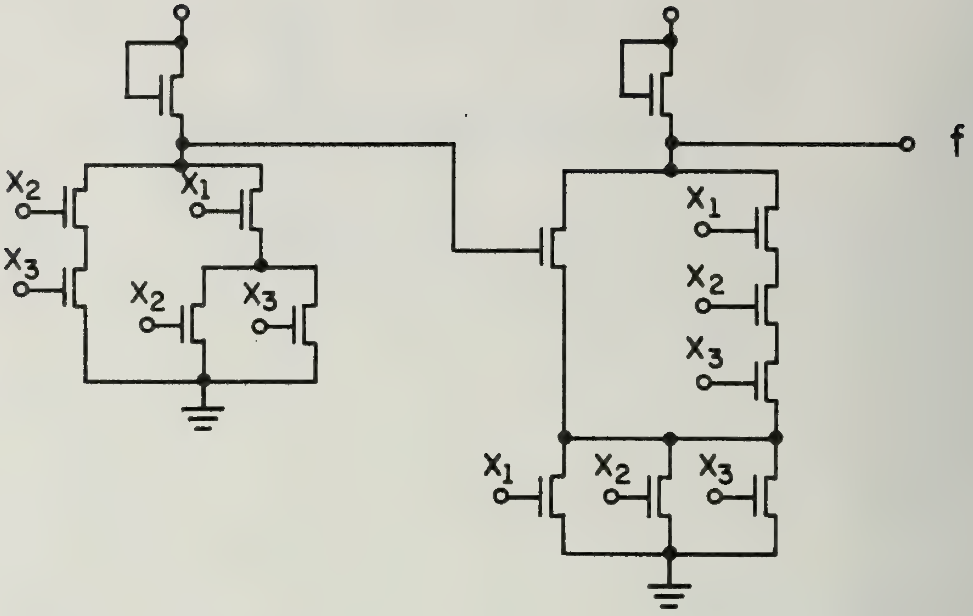
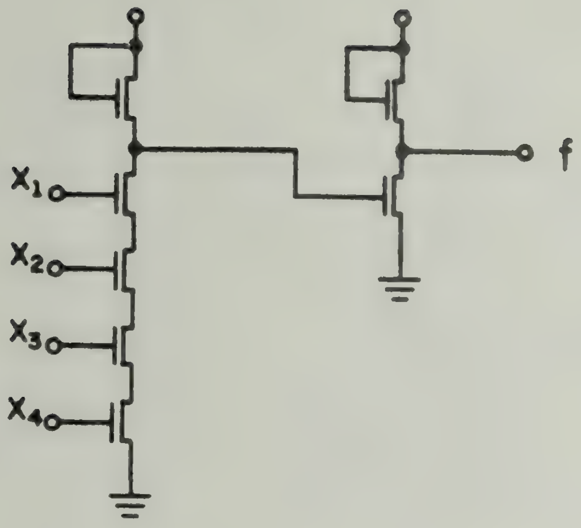


226 (EVEN PARITY FUNCTION)



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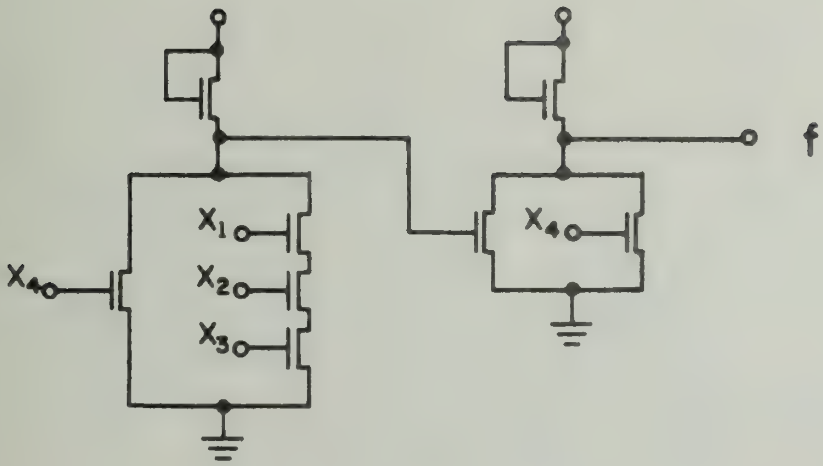

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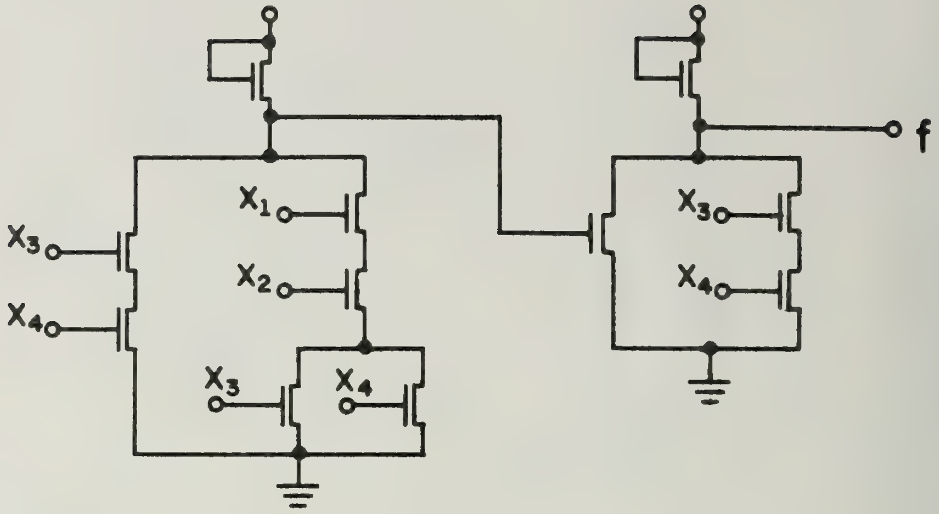

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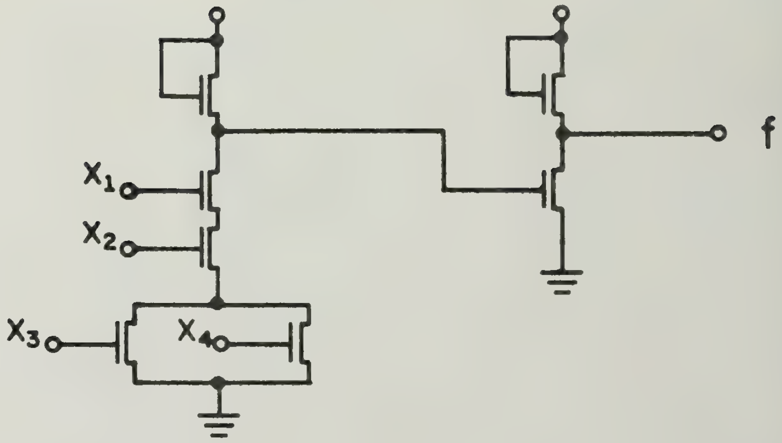

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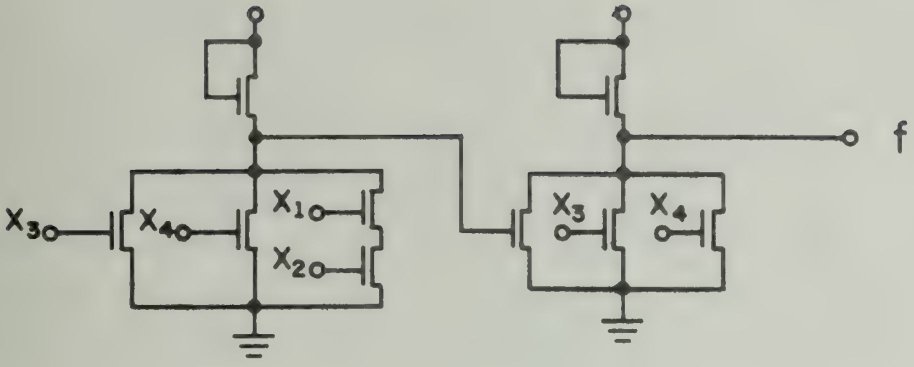

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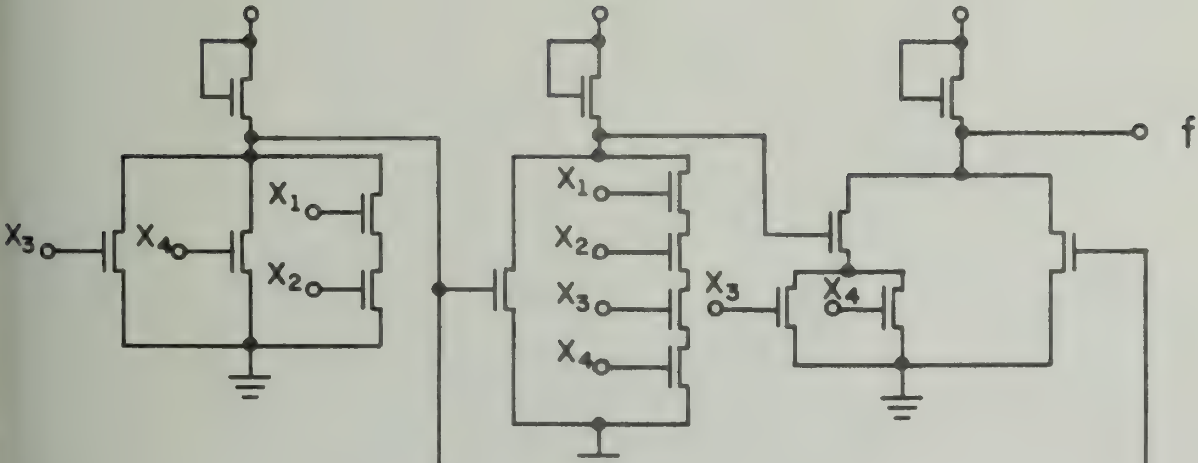

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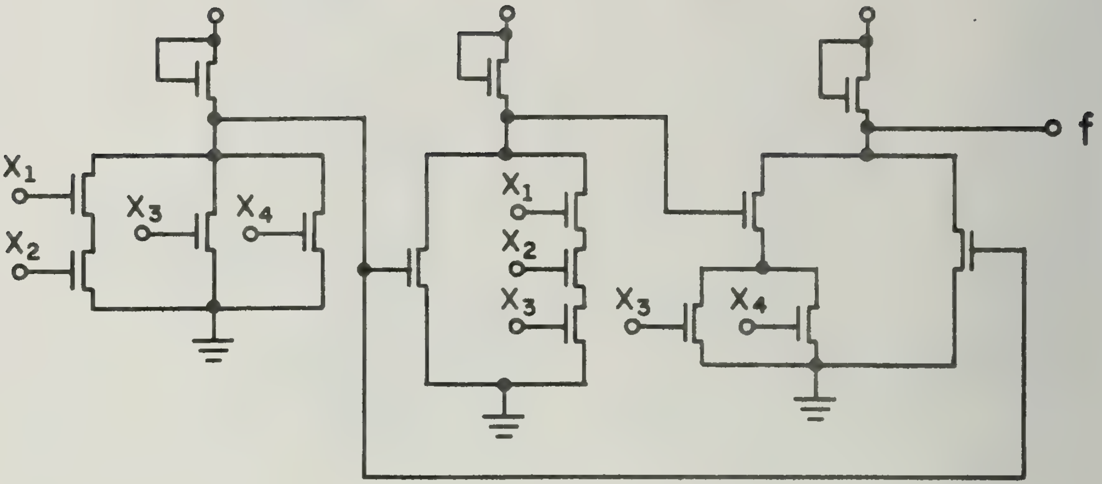

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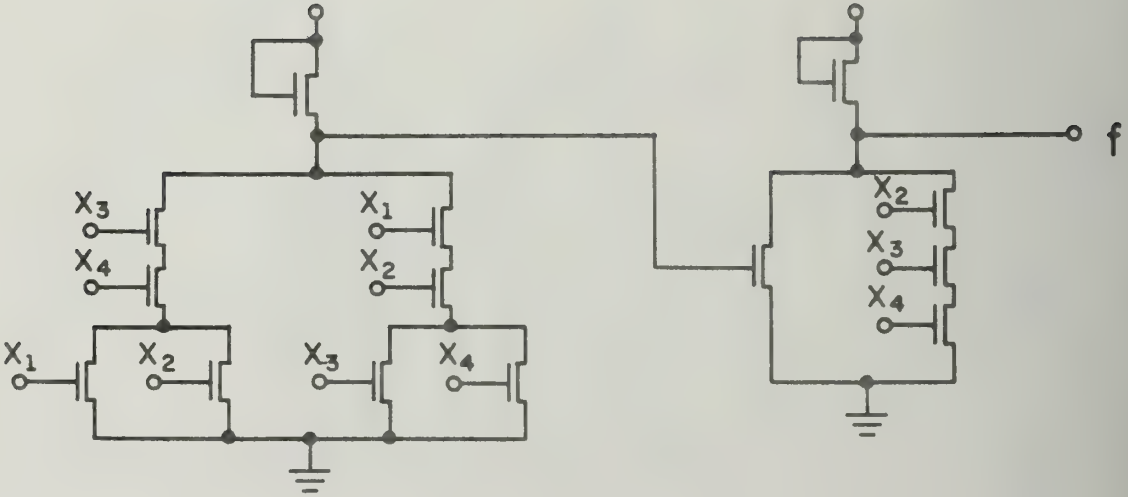

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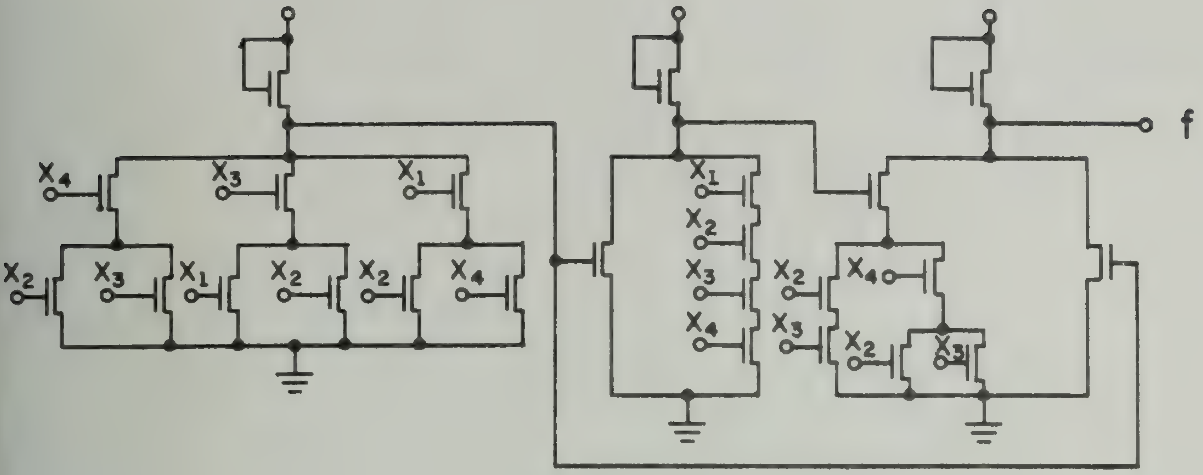

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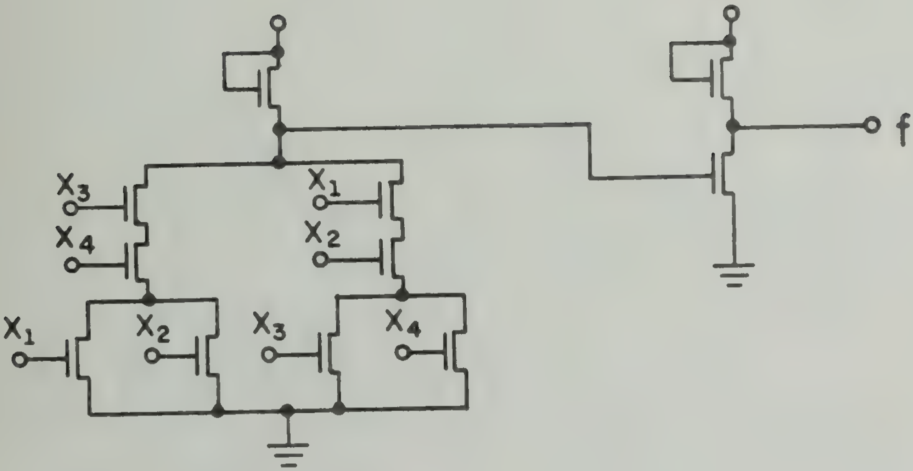

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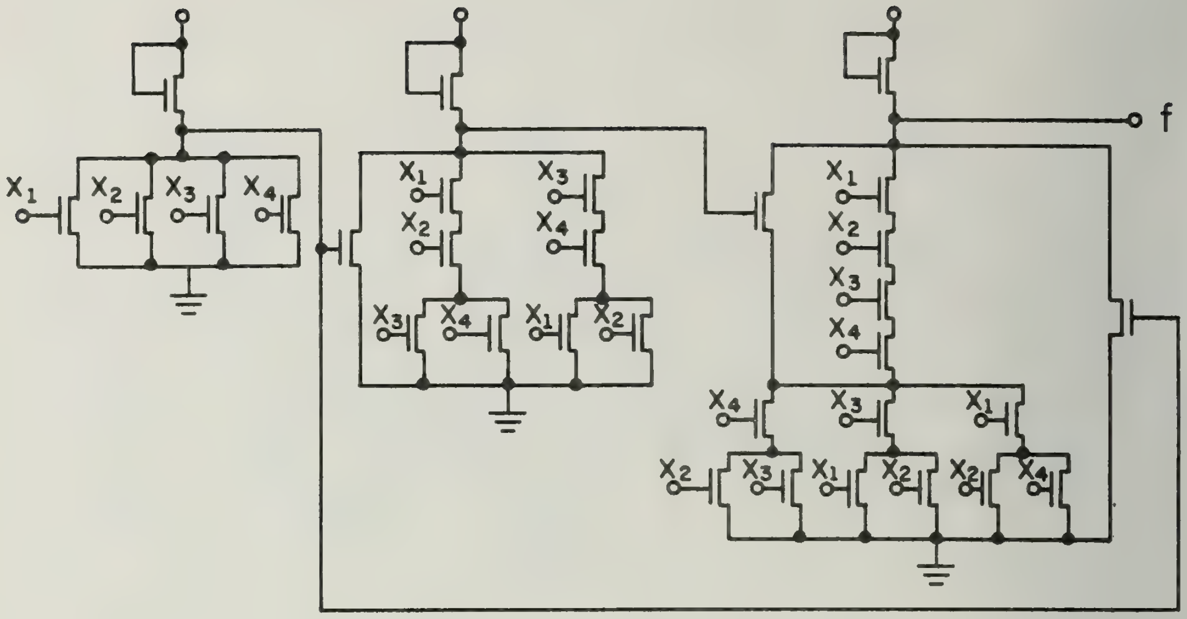
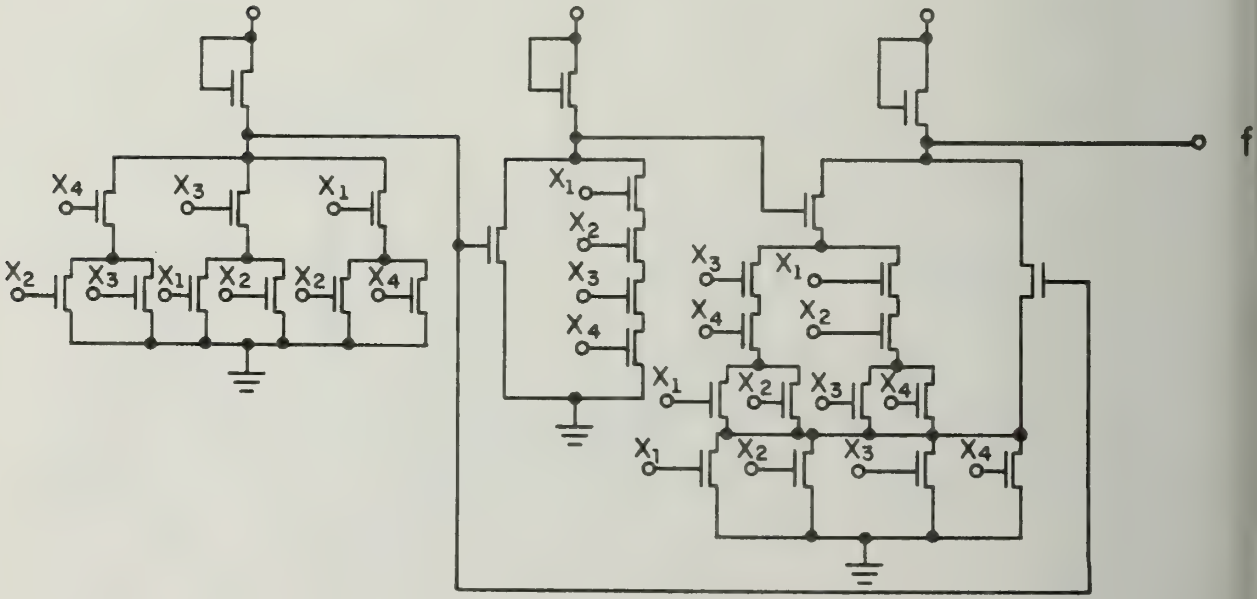


6996 (ODD PARITY FUNCTION)



9669 (EVEN PARITY FUNCTION)

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16. Abstracts

An MOS gate can realize a considerably complex negative function. In this paper, first an algorithm which realizes a logic network for a given function with a minimal number of negative gates is described. This algorithm is a modification of Liu's early algorithm to make program implementation easy.

Second, a computer program which implements the algorithm is described and the computational results for more than four thousand functions are discussed.

Finally, as a further consideration, a modified algorithm which was developed based on Liu's algorithm and Kasami et al's is described, and the advantages of this algorithm are discussed.

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